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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 67 (replaces version 66)

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

- 1.1 Product identifier
- Trade name: Plastic Clean & Protect
- · Article number: 85447
- 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 cleanser 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@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

Aerosol 1 H222 Extremely flammable aerosol.

H229 Pressurised container: May burst if heated.



environment

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



Skin Irrit. 2

H315 Causes skin irritation.

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

GHS09

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· Signal word Danger

· Hazard-determining components of labelling:

Hydrocarbons, C7, n-alkanes isoalkanes, cyclic

(R)-p-mentha-1,8-diene

· Hazard statements

H222 Extremely flammable aerosol.

H229 Pressurised container: May burst if heated.

H315 Causes skin irritation.

H317 May cause an allergic skin reaction.

H336 May cause drowsiness or dizziness.

H411 Toxic to aquatic life with long lasting effects.

Precautionary statements

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

P211 Do not spray on an open flame or other ignition source.

P251 Do not pierce or burn, even after use.

P260 Do not breathe mist/vapours/spray.

Use only outdoors or in a well-ventilated area. P271

P273 Avoid release to the environment. P280 Wear protective gloves / eye protection. P302+P352 IF ON SKIN: Wash with plenty of water.

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

P410+P412 Protect from sunlight. Do not expose to temperatures exceeding 50°C/122°F.

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	5.	
CAS: 106-97-8 EINECS: 203-448-7 Reg.nr.: 01-2119474691-32	butane, pure The property of	25-50%
EC number: 927-510-4 Reg.nr.: 01-2119475515-33	Hydrocarbons, C7, n-alkanes isoalkanes, cyclic ♦ Flam. Liq. 2, H225; ♦ Asp. Tox. 1, H304; ♦ Aquatic Chronic 2, H411; ♦ Skin Irrit. 2, H315; STOT SE 3, H336	25-50%
CAS: 74-98-6 EINECS: 200-827-9 Reg.nr.: 01-2119486944-21	Propane liquefied Transpare liquefied Flam. Gas 1A, H220; Press. Gas (Comp.), H280	5-10%
CAS: 8042-47-5 EINECS: 232-455-8 Reg.nr.: 01-2119487078-27	White mineral oil, petroleum ❖ Asp. Tox. 1, H304	5-10%
CAS: 75-28-5 EINECS: 200-857-2 Reg.nr.: 01-2119485395-27	Isobutane The Flam. Gas 1A, H220; Press. Gas (Comp.), H280	_ <3%
CAS: 5989-27-5 EINECS: 227-813-5 Reg.nr.: 01-2119529223-47		_ <3%

[·] 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.

If skin irritation continues, consult a doctor.

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- · After eye contact Rinse opened eye for several minutes under running water.
- After swallowing

Rinse out mouth.

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.

Use fire fighting measures that suit the environment.

· 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.

Carbon monoxide and carbon dioxide

Nitrogen oxides (NOx)

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.

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

Keep away from ignition sources

Put on breathing apparatus.

Wear protective equipment. Keep unprotected persons away.

· 6.2 Environmental precautions:

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

Do not allow product to reach sewage system or water bodies.

Inform respective authorities in case product reaches water or sewage system.

6.3 Methods and material for containment and cleaning up:

Send for recovery or disposal in suitable containers.

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.

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.

Pressurized container: protect from sunlight and do not expose to temperatures exceeding 50°C, i.e. electric lights. Do not pierce or burn, even after use.

Do not spray on flames or red-hot objects.

Use explosion-proof apparatus / fittings and spark-proof tools.

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7.2 Conditions for safe storage, including any incompatibilities

Requirements to be met by storerooms and containers:

Store in cool location.

- Observe official regulations on storing packagings with pressurised containers.
- · Information about storage in one common storage facility: Not required.
- Further information about storage conditions:

Protect from heat and direct sunlight.

Store container in a well ventilated position.

- · Storage class 2 B
- 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:

106-97-8 butane, pure

WEL | Short-term value: 1810 mg/m³, 750 ppm Long-term value: 1450 mg/m³, 600 ppm Carc (if more than 0.1% of buta-1.3-diene)

Regulatory information WEL: EH40/2020

DNELS			
Hydrocarbons, C7, n-alkanes isoalkanes, cyclic			
Oral		149 mg/kg bw/day (Consumer)	
Dermal		149 mg/kg/day (Consumer)	
		300 mg/kg/day (Worker)	

Inhalative Long term systemic effect 447 mg/m³ (Consumer)

2,085 mg/m3 (Worker)

5989-27-5 (R)-p-mentha-1,8-diene

Acute local effect 0.222 mg/cm² (Worker) Dermal Inhalative Long term systemic effect 33.3 mg/m³ (Worker)

PNECs

5989-27-5 (R)-p-mentha-1,8-diene

PNEC 1.32 mg/kg (Freshwater sediment) (short term)

0.13 mg/kg (Marine water sediment) (short term)

1.8 mg/l (Sewage treatment plant) (short term)

0.262 mg/kg (Soil) (short term)

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 gases / fumes / aerosols.

Avoid contact with the skin.

Avoid contact with the eyes and skin.

Breathing equipment:

Only during spraying without adequate removal by suction.

A1 / P1 (EN14387)

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.

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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.

Not applicable.

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 · Colour: Colourless · Odour: Characteristic · Odour threshold: Not determined. • Melting point/freezing point: Not determined Not applicable, as aerosol

Boiling point or initial boiling point and boiling range

· Flammability

Lower and upper explosion limit

· Lower: Not determined. · Upper: Not determined.

Flash point: Not applicable, as aerosol

· Ignition temperature: 200 °C Decomposition temperature: 200 °C

· pH Mixture is non-soluble (in water).

· Viscosity:

Kinematic viscosity Not determined. · dynamic: Not determined.

Solubility

Not miscible / difficult to mix · Water:

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 <1

· Vapour density Not determined.

9.2 Other information

· Appearance:

· Form: Aerosol

· Important information on protection of health and

environment, and on safety.

Self-inflammability: Product is not selfigniting.

Explosive properties: Not determined.

Solvent content:

· Organic solvents: 566g/I VOC

· Change in condition

Evaporation rate Not applicable.

· Information with regard to physical hazard classes

Explosives Void

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· Flammable gases	Void
Aerosols	Extremely flammable aerosol. Pressurised container: May burst if heated.
· 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 ga	ases
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 and stored according to specifications.
- · 10.3 Possibility of hazardous reactions No dangerous reactions known
- · 10.4 Conditions to avoid Heat. Hot surfaces. Sources of ignition. Flames.
- 10.5 Incompatible materials:

Strong oxidising agents Water / humidity

10.6 Hazardous decomposition products:

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

Carbon monoxide and carbon dioxide

Nitrogen oxides (NOx)

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 tha	at are relevant for classification:	
106-97-8 k	outane, pure)	
Inhalative	LC50 (4 hr)	658 mg/l (Rat)	
	ErC 50	19.37 mg/l (Algae) (96 hr)	
Hydrocari	Hydrocarbons, C7, n-alkanes isoalkanes, cyclic		
Inhalative	LC50 (4 hr)	>23 mg/l (Rat)	
	IC50	<10 (Algae)	
74-98-6 Pi	74-98-6 Propane liquefied		
	ErC 50	19.37 mg/l (Algae) (96 hr)	
8042-47-5	White mine	ral oil, petroleum	
Oral	LD50	>5,000 mg/kg (Rat)	
Dermal	LD50	>2,000 mg/kg (Rabbit)	
Inhalative	LC50 (4 hr)	>5 mg/l (Rat)	
	ErC 50	>100 mg/l (Algae)	
75-28-5 Is	obutane		
	ErC 50	19.37 mg/l (Algae)	
5989-27-5	(R)-p-mentl	ha-1,8-diene	
Oral	LD50	4,400 mg/kg (Rat)	

Skin corrosion/irritation Causes skin irritation.

· Respiratory or skin sensitisation May cause an allergic skin reaction.

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- · STOT-single exposure 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:			
106-97-8 butane	106-97-8 butane, pure		
EC50 (48 hr)	69.43 mg/l (Daphnia magna)		
LC50 (96 hr)	49.9 mg/l (Fish)		
Hydrocarbons,	C7, n-alkanes isoalkanes, cyclic		
EC50 (48 hr)	3 mg/l (Daphnia magna)		
LC50 (96 hr)	<10 mg/l (Fish)		
	>13.4 mg/l (Oncorhynchus mykiss)		
NOEC	1.53 mg/l (Oncorhynchus mykiss) (28 days)		
NOEC (21 days)	NOEC (21 days) 1 mg/l (Daphnia magna)		
74-98-6 Propane	74-98-6 Propane liquefied		
EC50 (48 hr)	69.43 mg/l (Daphnia magna)		
LC50 (96 hr)	49.9 mg/l (Fish)		
8042-47-5 White	mineral oil, petroleum		
EC50 (48 hr)	500,000 mg/l (Daphnia magna)		
75-28-5 Isobutai	ne		
EC50 (48 hr)	69.43 mg/l (Daphnia magna)		
LC50 (96 hr)	91.42 mg/l (Fish)		
5989-27-5 (R)-p-	mentha-1,8-diene		
LC50 (96 hr)	0.72 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
- · Remark: 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.

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 UN1950

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14.2 UN proper shipping name

1950 AEROSOLS, ENVIRONMENTALLY HAZARDOUS

· IMDG AEROSOLS, MARINE POLLUTANT

·IATA AEROSOLS, flammable

· 14.3 Transport hazard class(es)

· ADR



· Class 2 5F Gases. ·Label

· IMDG



· Class 2.2 Gases. ·Label 2.1

·IATA



·Class 2.2 Gases. ·Label 2.1

· 14.4 Packing group

· ADR, IMDG, IATA Void

14.5 Environmental hazards: Product contains environmentally hazardous substances: (R)-p-mentha-

1,8-diene

Warning: Gases.

· Marine pollutant: Symbol (fish and tree) · Special marking (ADR): Symbol (fish and tree)

14.6 Special precautions for user

Kemler Number:

· EMS Number:

F-D,S-U

· Stowage Code SW1 Protected from sources of heat.

SW22 For AEROSOLS with a maximum capacity of 1 litre: Category A. For AEROSOLS with a capacity above 1 litre: Category B. For WASTE

AEROSOLS: Category C, Clear of living quarters.

· Segregation Code SG69 For AEROSOLS with a maximum capacity of 1 litre:

Segregation as for class 9. Stow "separated from" class 1 except for

division 1.4.

For AEROSOLS with a capacity above 1 litre:

Segregation as for the appropriate subdivision of class 2.

For WASTE AEROSOLS:

Segregation as for the appropriate subdivision of class 2.

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

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Tunnel restriction code	E
· IMDG · Limited quantities (LQ) · Excepted quantities (EQ)	1L Code: E0 Not permitted as Excepted Quantity
UN "Model Regulation":	UN 1950 AEROSOLS, 2.1, 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

P3a FLAMMABLE AEROSOLS

E2 Hazardous to the Aquatic Environment

- · Qualifying quantity (tonnes) for the application of lower-tier requirements 150 t
- Qualifying quantity (tonnes) for the application of upper-tier requirements 500 t
- · National regulations
- · Technical instructions (air):

Class	Share in %
NK	32.1

- · 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

H220 Extremely flammable gas.

H225 Highly flammable liquid and vapour.

H226 Flammable liquid and vapour.

H280 Contains gas under pressure; may explode if heated.

H304 May be fatal if swallowed and enters airways.

H315 Causes skin irritation.

H317 May cause an allergic skin reaction.

H336 May cause drowsiness or dizziness.

H400 Very toxic to aquatic life.

H411 Toxic to aquatic life with long lasting effects.

H412 Harmful 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)
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. Gas 1A: Flammable gases – Category 1A Aerosol 1: Aerosols – Category 1

: Aerosols – Category 3 Press. Gas (Comp.): Gases under pressure – Compressed gas

Flam. Liq. 2: Flammable liquids – Category 2 Flam. Liq. 3: Flammable liquids – Category 3 Skin Irrit. 2: Skin corrosion/irritation – Category 2

Skin Sens. 1: Skin sensitisation – Category 1 Skin Sens. 1B: Skin sensitisation – Category 1B

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

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Asp. Tox. 1: Aspiration hazard — Category 1
Aquatic Acute 1: Hazardous to the aquatic environment - acute 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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