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Revision: 18.01.2023

Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 23.01.2023

Version number 15 (replaces version 14)

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

- 1.1 Product identifier
- · Trade name: Battery Terminal Grease
- · Article number: 86143
- 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 Grease
- 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



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.

STOT SE 3 H336

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

· Signal word Danger

· Hazard-determining components of labelling:

Hydrocarbons, C7, n-alkanes isoalkanes, cyclic

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· Hazard statements

H222 Extremely flammable aerosol.

H229 Pressurised container: May burst if heated.

H315 Causes skin irritation.

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.
 P261 Avoid breathing mist/vapours/spray.
 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.

P332+P313 If skin irritation occurs: Get medical advice/attention.

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.

CAS: 106-97-8	butane, pure	25-50%
EINECS: 203-448-7 Reg.nr.: 01-2119474691-32	♠ Flam. Gas 1A, H220; Press. Gas (Comp.), H280	
	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	10-25%
CAS: 74-98-6 EINECS: 200-827-9 Reg.nr.: 01-2119486944-21	Propane liquefied Flam. Gas 1A, H220; Press. Gas (Comp.), H280	5-10%
Reg.nr.: 01-2119484651-34	Hydrocarbons, C6, isoalkanes, <5% n-hexane ♦ Flam. Liq. 2, H225; ♦ Asp. Tox. 1, H304; ♦ Aquatic Chronic 2, H411; ♦ Skin Irrit. 2, H315; STOT SE 3, H336	5-10%
CAS: 75-28-5 EINECS: 200-857-2 Reg.nr.: 01-2119485395-27	Isobutane Flam. Gas 1A, H220; Press. Gas (Comp.), H280	<3%
EINECS: 203-777-6 Reg.nr.: 01-2119480412-44	n-hexane � Flam. Liq. 2, H225; � Repr. 2, H361f; STOT RE 2, H373; Asp. Tox. 1, H304; � Aquatic Chronic 2, H411; � Skin Irrit. 2, H315; STOT SE 3, H336 Specific concentration limit: STOT RE 2; H373: C ≥ 5 %	<1%
CAS: 110-82-7 EINECS: 203-806-2	cyclohexane Solution Flam. Liq. 2, H225; Asp. Tox. 1, H304; Aquatic Acute 1, H400; Aquatic Chronic 1, H410; Skin Irrit. 2, H315; STOT SE 3, H336	<1%

• 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

Take affected persons into the open air and position comfortably

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

- · After skin contact If skin irritation continues, consult a doctor.
- · 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.

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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 Use fire fighting measures that suit the environment.
- 5.2 Special hazards arising from the substance or mixture Carbon monoxide and carbon dioxide
- 5.3 Advice for firefighters
- · Protective equipment: Wear self-contained breathing apparatus.
- 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

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:

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.

Keep away from heat and direct sunlight.

· Information about protection against explosions and fires:

Keep ignition sources away - Do not smoke.

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.

7.2 Conditions for safe storage, including any incompatibilities

- Storage
- · 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.
- · 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)

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(Contd. of page 3) 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				
Hydrocarbons, C7, n-alkanes isoalkanes, cyclic				
Oral	Long term systemic effect	149 mg/kg bw/day (Consumer)		
Dermal	Long term systemic effect	149 mg/kg/day (Consumer)		
		300 mg/kg/day (Worker)		
Inhalative	Long term systemic effect	447 mg/m³ (Consumer)		
		2,085 mg/m3 (Worker)		
Hydrocarbons, C6, isoalkanes, <5% n-hexane				
Dermal	Long term systemic effect	13,694 mg/kg bw/d (Worker)		
Inhalative	Long term systemic effect	5,306 mg/m³ (Worker)		

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 skin.

Avoid contact with the eyes and skin.

Breathing equipment:

Only during spraying without adequate removal by suction.

Short term filter device:

Filter AX (EN 14387)

Hand protection



Protective gloves.

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

Material of gloves

Wear suitable gloves tested to EN 374

Nitrile rubber. NBR

Recommended thickness of the material: ≥ 0.4 mm

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

Penetration time of glove material

Value for the permeation: Level 6 > 480 minutes

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

Eye/face protection



Safety glasses (EN 166)

Body protection: Protective work clothing (EN-13034/6)

GB

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SECTION 9: Physical and chemical properties	
9.1 Information on basic physical and chemical p	roperties
General Information	
· Physical state	Aerosol
· Colour:	Blue
· Odour:	Characteristic
Odour threshold:	Not determined.
Melting point/freezing point:	
	Not determined
Boiling point or initial boiling point and boiling range	Not applicable, as aerosol
Flammability	Not applicable.
Lower and upper explosion limit	
Lower:	Not determined.
Upper:	Not determined.
Flash point:	Not applicable, as aerosol
Decomposition temperature:	Not determined.
pH	Mixture is non-polar/aprotic.
· Viscosity:	, ,
Kinematic viscosity	Not determined.
dynamic:	Not determined.
Solubility	Not dotoriffinod.
· Water:	Not missible / difficult to
	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	Not determined.
· Vapour density	Not determined.
0.0.046	
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:	500 g/l VOC
Change in condition	300 g/1 V 0 C
	Not applicable
Evaporation rate	Not applicable.
Information with regard to physical hazard classes	
Explosives	Void
Flammable gases	Void
Aerosols	Extremely flammable aerosol. Pressurised container: May burst if
ACI USUIS	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 gases	
in contact with water	
	Void
Oxidising liquids	Void
· Oxidising solids	Void
Organic peroxides	Void
	Void Void

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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:

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

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 Based on available data, the classification criteria are not met.

LD/LC50	· LD/LC50 values that 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)	
Hydrocarl	bons, C7, n-	alkanes isoalkanes, cyclic	
Inhalative	LC50 (4 hr)	>23 mg/l (Rat)	
	IC50	<10 (Algae)	
74-98-6 Pi	ropane lique	fied	
	ErC 50	19.37 mg/l (Algae) (96 hr)	
Hydrocarl	bons, C6, is	oalkanes, <5% n-hexane	
Dermal	LD50	>3,350 mg/kg (Rabbit)	
	ErC 50	30 mg/l (Algae)	
75-28-5 Is	obutane		
	ErC 50	19.37 mg/l (Algae)	
110-82-7 d	yclohexane		
Oral	LD50	12,705 mg/kg (Rat)	
Inhalative	LC50 (4 hr)	89,600 mg/l (Rabbit)	

- Skin corrosion/irritation Causes skin irritation.
- · 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, pure				
	ne, pure			
EC50 (48 hr)	69.43 mg/l (Daphnia magna)			
LC50 (96 hr)	49.9 mg/l (Fish)			
Hydrocarbons	s, 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 day	rs) 1 mg/l (Daphnia magna)			
74-98-6 Propa	ne liquefied			
EC50 (48 hr)	69.43 mg/l (Daphnia magna)			
LC50 (96 hr)	49.9 mg/l (Fish)			
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Hydrocarbons, C6, isoalkanes, <5% n-hexane EbL50

2.6 mg/l (Pseudokirchneriella subcapitata) (OECD 201)

EC50 3.87 mg/l (Daphnia magna)

EL50 (48 hr) 31.9 mg/l (Daphnia magna) (OECD 202)

LC50 >1,000 ug/l (Fish)

18.27 mg/l (Oncorhynchus mykiss) (OECD 203) LL50 (96 hr)

NOEC (21 days) 7.1381 mg/l (Daphnia magna) (QSAR)

NOELR 4.089 mg/l (Oncorhynchus mykiss) (QSAR 28 days) 30 mg/l (Pseudokirchneriella subcapitata) (OECD 201)

75-28-5 Isobutane

69.43 mg/l (Daphnia magna) EC50 (48 hr)

LC50 (96 hr) 91.42 mg/l (Fish)

- 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.

SECTION 14: Transport information

- · 14.1 UN number or ID number
- · ADR, IMDG, IATA UN1950

14.2 UN proper shipping name

· ADR 1950 AEROSOLS, ENVIRONMENTALLY HAZARDOUS

· IMDG **AEROSOLS**

·IATA AEROSOLS. flammable

14.3 Transport hazard class(es)

ADR



Class 2 5F Gases.

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(Contd. of page 7) · Label 2.1 · IMDG, IATA · Class 2.1 Gases. · Label 2.1 14.4 Packing group · ADR, IMDG, IATA Void 14.5 Environmental hazards: · Special marking (ADR): Symbol (fish and tree) · 14.6 Special precautions for user Warning: Gases. 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 Tunnel restriction code D · IMDG · Limited quantities (LQ) 1L Excepted quantities (EQ) Code: E0 Not permitted as Excepted Quantity

SECTION 15: Regulatory information

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

UN 1950 AEROSOLS, 2.1, ENVIRONMENTALLY HAZARDOUS

Directive 2012/18/EU

· UN "Model Regulation":

- · 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 $500\,t$

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

Class	Share in %
1	0.5
NK	31.5

- · 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

H220 Extremely flammable gas.

H225 Highly 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.

H336 May cause drowsiness or dizziness.

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:

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) 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

Aerosol 1: Aerosols – Category 1
: Aerosols – Category 3
Press. Gas (Comp.): Gases under pressure – Compressed gas
Flam. Liq. 2: Flammable liquids – Category 2
Skin Irrit. 2: Skin corrosion/irritation – Category 2

Skin Irrit. 2: Skin corrosion/irritation – 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.