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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 6 (replaces version 5)

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

- 1.1 Product identifier
- · Trade name: Anti seize
- · Article number: 83972
- 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 Release 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



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.



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

- · Signal word Danger
- Hazard-determining components of labelling:
- Hazard statements

H222 Extremely flammable aerosol.

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H229 Pressurised container: May burst if heated.

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.
P280 Wear protective gloves / eye protection.

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.

#### Additional information:

EUH066 Repeated exposure may cause skin dryness or cracking.

- 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: 109-66-0 EINECS: 203-692-4 Reg.nr.: 01-2119459286-30	pentane	25-50%
CAS: 74-98-6 EINECS: 200-827-9 Reg.nr.: 01-2119486944-21	Propane liquefied  Flam. Gas 1A, H220; Press. Gas (Comp.), H280	10-25%
CAS: 106-97-8 EINECS: 203-448-7 Reg.nr.: 01-2119474691-32	butane, pure  Flam. Gas 1A, H220; Press. Gas (Comp.), H280	10-25%
CAS: 75-28-5 EINECS: 200-857-2 Reg.nr.: 01-2119485395-27	Isobutane  Flam. Gas 1A, H220; Press. Gas (Comp.), H280	5-10%
CAS: 7440-50-8 EINECS: 231-159-6 Reg.nr.: 01-2119480154-42	Copper  Aquatic Acute 1, H400; Aquatic Chronic 2, H411; Acute Tox. 4, H302	- <3%

#### SECTION 4: First aid measures

#### 4.1 Description of first aid measures

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

#### After skin contact

Instantly wash with water and soap and rinse thoroughly.

Generally the product is not skin irritating.

- · After eye contact Rinse opened eye for several minutes under running water.
- · After swallowing In case of persistent symptoms consult doctor.
- 4.2 Most important symptoms and effects, both acute and delayed No further relevant information available.
- 4.3 Indication of any immediate medical attention and special treatment needed

No further relevant information available.

## SECTION 5: Firefighting measures

- 5.1 Extinguishing media
- · Suitable extinguishing agents Use fire fighting measures that suit the environment.
- 5.2 Special hazards arising from the substance or mixture Formation of poisonous gases during heating or in fires.

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- 5.3 Advice for firefighters
- · Protective equipment: Put on breathing apparatus.

#### SECTION 6: Accidental release measures

## 6.1 Personal precautions, protective equipment and emergency procedures

Put on breathing apparatus.

Wear protective equipment. Keep unprotected persons away.

6.2 Environmental precautions: Inform respective authorities in case product reaches water or sewage system.

#### 6.3 Methods and material for containment and cleaning up:

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.
- Information about protection against explosions and fires:

Keep ignition sources away - Do not smoke.

Keep breathing equipment ready.

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

· Storage

Requirements to be met by storerooms and containers:

Observe official regulations on storing packagings with pressurised containers.

- · Information about storage in one common storage facility: Not required.
- Further information about storage conditions: Keep container tightly sealed.
- · 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 work	kplace:
109-66-0 pentane	

WEL Long-term value: 1800 mg/m³, 600 ppm

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)

7440-50-8 Copper

WEL | Short-term value: 2\*\* mg/m3 Long-term value: 0.2\* 1ੱ\*\* mg/m³ \*fume \*\*dusts and mists (as Cu)

Regulatory information WEL: EH40/2020

#### **DNELs**

#### 109-66-0 pentane

Dermal Long term systemic effect | 432 mg/kg bw/day (Worker) Inhalative Long term systemic effect 3,000 mg/m3 (Worker)

#### 7440-50-8 Copper

Acute systemic effect Dermal 273 mg/kg bw/day (Worker) Long term systemic effect | 137 mg/kg (Worker)

Inhalative | Acute systemic effect 20 mg/m3 (Worker)

#### PNECs

### 109-66-0 pentane

PNEC 0.23 mg/l (Aqua (freshwater))

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1.2 mg/kg (Freshwater sediment)

3.6 mg/l (Sewage treatment plant)

0.55 mg/kg (Soil)

#### 7440-50-8 Copper

PNEC 0.0078 mg/l (Aqua (freshwater))

0.0052 mg/l (Aqua (marine water)) 87 mg/kg (Freshwater sediment)

676 mg/kg (Marine water sediment)

65.5 mg/kg (Soil)

Additional information: The lists that were valid during the compilation were used as basis.

#### 8.2 Exposure controls

- Appropriate engineering controls No further data; see item 7.
- Individual protection measures, such as personal protective equipment
- General protective and hygienic measures

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

- Do not inhale gases / fumes / aerosols.
- · Breathing equipment: Filter A2 / P3 (EN 14387)
- Hand protection



Protective gloves.

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

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

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

#### Material of gloves

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

Not applicable.

#### Penetration time of glove material

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

· Eye/face protection



Safety glasses (EN 166)

## SECTION 9: Physical and chemical properties

#### 9.1 Information on basic physical and chemical properties

· General Information

Physical stateColour:AerosolCopper coloured

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

Lower and upper explosion limit

 Lower:
 1.4 Vol %

 • Upper:
 10.9 Vol %

 • Flash point:
 Not applica

Flash point:

Not applicable, as aerosol
Ignition temperature:

285 °C

Decomposition temperature: Not determined.

• **pH** Mixture is non-soluble (in water).

Viscosity:

· Kinematic viscosity
· dynamic:
Not determined.
Not determined.

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(Contd. of page 4) Solubility · Water: Not miscible / difficult to mix Partition coefficient n-octanol/water (log value) Not determined. · Vapour pressure at 20 °C: 8,300 hPa Density and/or relative density Density at 20 °C 0.68 q/cm3 · Relative density Not determined. · 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: 57.5 % · Change in condition 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 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

Void

Void

Void

Void

## SECTION 10: Stability and reactivity

- 10.1 Reactivity No further relevant information available.
- 10.2 Chemical stability

Oxidising solids

Organic peroxides

· Corrosive to metals

Desensitised explosives

- Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.
- 10.3 Possibility of hazardous reactions No dangerous reactions known
- · 10.4 Conditions to avoid No further relevant information available.
- · 10.5 Incompatible materials: No further relevant information available.
- 10.6 Hazardous decomposition products: No dangerous decomposition products known

#### SECTION 11: Toxicological information

11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008

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

· LD/LC50 values that are relevant for classification:		
109-66-0 pentane		
Oral	LD50	2,001 mg/kg (Rat)
Dermal	LD50	2,001 mg/kg (Rat)

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740000		(Contd. of pa
74-98-6 P	ropane lique	eried
	ErC 50	19.37 mg/l (Algae) (96 hr)
106-97-8 I	butane, pure	
Inhalative	LC50 (4 hr)	658 mg/l (Rat)
	ErC 50	19.37 mg/l (Algae) (96 hr)
75-28-5 Is	obutane	
	ErC 50	19.37 mg/l (Algae)

- 11.2 Information on other hazards
- · Endocrine disrupting properties

None of the ingredients is listed.

## SECTION 12: Ecological information

## 12.1 Toxicity

•			
· Aquatic toxicity:			
109-66-0 pen	109-66-0 pentane		
EC50	10.7 mg/l (Pseudokirchneriella subcapitata) (72 hours)		
EC50 (48 hr)	2.7 mg/l (Daphnia magna)		
LC50 (96 hr)	4.26 mg/l (Oncorhynchus mykiss)		
NOEC (72 hr)	7.51 mg/l (Pseudokirchneriella subcapitata)		
74-98-6 Propa	74-98-6 Propane liquefied		
EC50 (48 hr)	69.43 mg/l (Daphnia magna)		
LC50 (96 hr)	49.9 mg/l (Fish)		
106-97-8 buta	nne, pure		
EC50 (48 hr)	69.43 mg/l (Daphnia magna)		
LC50 (96 hr)	49.9 mg/l (Fish)		
75-28-5 Isobu	75-28-5 Isobutane		
EC50 (48 hr)	69.43 mg/l (Daphnia magna)		
LC50 (96 hr)	91.42 ma/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.

-GB

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SECTION 14: Transport information	
· 14.1 UN number or ID number · ADR, IMDG, IATA	UN1950
· 14.2 UN proper shipping name · ADR · IMDG · IATA	1950 AEROSOLS, ENVIRONMENTALLY HAZARDOUS AEROSOLS (PENTANES), MARINE POLLUTANT AEROSOLS, flammable
14.3 Transport hazard class(es)	
ADR	
· Class · Label	2 5F Gases. 2.1
· IMDG	
· Class · Label	2.1 Gases.
·IATA	2.1
· Class	2.1 Gases. 2.1
14.4 Packing group	2.1
· ADR, IMDG, IATA	Void
· 14.5 Environmental hazards: · Marine pollutant: · Special marking (ADR):	Product contains environmentally hazardous substances: pentane Symbol (fish and tree) Symbol (fish and tree)
14.6 Special precautions for user Kemler Number:	Warning: Gases.
· EMS Number: · Stowage Code	F-D,S-U 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 instruments	y to IMO  Not applicable.
· Transport/Additional information:	
· ADR · Limited quantities (LQ)	1L
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Excepted quantities (EQ)	Code: E0 Not permitted as Excepted Quantity
Transport category	2
Tunnel restriction code	D
·IMDG	
Limited quantities (LQ)	1L
Excepted quantities (ÉQ)	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 %
III	1.1
NK	57.5

- · 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.

H302 Harmful if swallowed.

H304 May be fatal if swallowed and enters airways.

H336 May cause drowsiness or dizziness.

H400 Very toxic to aquatic life.

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:

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

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

INTIA. 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

Aerosol 1. Aerosols – Category 3
Press. Gas (Comp.): Gases under pressure – Compressed gas
Flam. Liq. 2: Flammable liquids – Category 2
Acute Tox. 4: Acute toxicity – Category 4

STOT SE 3: Specific target organ toxicity (single exposure) – Category 3 Asp. Tox. 1: Aspiration hazard – Category 1

Aquatic Acute 1: Hazardous to the aquatic environment - acute aquatic hazard - Category 1

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Aquatic Chronic 2: Hazardous to the aquatic environment - long-term aquatic hazard – Category 2 · Data compared to the previous version altered. \*

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