

Page 1/9

Revision: 17.01.2023

## Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 23.01.2023

Version number 69 (replaces version 68)

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

1.1 Product identifier

· Trade name: Ceramic 1200

· Article number: 85235

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 Lubricant

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.



Skin Irrit. 2

H315 Causes skin irritation.

Eye Irrit. 2

H319 Causes serious eye 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:

Hydrocarbons, C7, n-alkanes isoalkanes, cyclic

Hazard statements

H222 Extremely flammable aerosol.

H229 Pressurised container: May burst if heated.

H315 Causes skin irritation.

(Contd. on page 2)

## according to 1907/2006/EC, Article 31

Printing date 23.01.2023 Version number 69 (replaces version 68) Revision: 17.01.2023

Trade name: Ceramic 1200

(Contd. of page 1)

H319 Causes serious eye irritation.

H336 May cause drowsiness or dizziness.

H412 Harmful 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.
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.

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do.

Continue rinsing.

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

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:

Warning! Hazardous respirable droplets may be formed when sprayed. Do not breathe spray or mist.

- 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: 106-97-8 EINECS: 203-448-7 Reg.nr.: 01-2119474691-32	butane, pure  Flam. Gas 1A, H220; Press. Gas (Comp.), H280	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	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%
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: 13463-67-7 EINECS: 236-675-5	Titanium dioxide [in powder form containing 1 % or more of particles with aerodynamic diameter ≤ 10 μm] substance with a Community workplace exposure limit	5-10%

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; 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. If symptoms persist, 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.

#### according to 1907/2006/EC, Article 31

Printing date 23.01.2023 Version number 69 (replaces version 68) Revision: 17.01.2023

Trade name: Ceramic 1200

(Contd. of page 2)

#### **SECTION 5: Firefighting measures**

#### 5.1 Extinguishing media

Suitable extinguishing agents CO2, extinguishing powder or water haze. Fight larger fires with water haze or alcohol-resistant foam.

- For safety reasons unsuitable extinguishing agents Water with a full water jet.
- 5.2 Special hazards arising from the substance or mixture No further relevant information available.
- 5.3 Advice for firefighters

#### · Protective equipment:

Do not inhale explosion gases or combustion gases.

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:

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.

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.

#### 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:

Store in cool, dry conditions in well sealed containers.

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)

(Contd. on page 4)

## according to 1907/2006/EC, Article 31

Printing date 23.01.2023 Version number 69 (replaces version 68) Revision: 17.01.2023

Trade name: Ceramic 1200

(Contd. of page 3)

13463-67-7 Titanium dioxide [in powder form containing 1 % or more of particles with aerodynamic of	liameter ≤ 10 μm]
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WEL Long-term value: 10\* 4\*\* mg/m3 \*total inhalable \*\*respirable

#### Regulatory information WEL FH40/2020

Regulatory Information WEE. E1140/2020				
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)		
64742-48-9 Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, <2% aromatics				
Dermal	Long term systemic effect	208 mg/kg bw/day (Worker)		
Inhalative	Long term systemic effect	871 mg/m3 (Worker)		

#### PNECs

#### 13463-67-7 Titanium dioxide [in powder form containing 1 % or more of particles with aerodynamic diameter ≤ 10 µm]

PNEC 0.184 mg/l (Agua (freshwater))

0.193 mg/l (Aqua (intermittent))

0.0184 mg/l (Aqua (marine water))

1,000 mg/kg (Freshwater sediment)

100 mg/kg (Marine water sediment)

100 mg/l (Sewage treatment plant)

100 mg/kg (Soil)

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

#### \*8.2 Exposure controls

· Appropriate engineering controls No further data; see item 7.

· Individual protection measures, such as personal protective equipment

#### General protective and hygienic measures

Keep away from foodstuffs, beverages and food.

Take off immediately all contaminated clothing

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

Avoid contact with the skin.

Avoid contact with the eyes and skin.

#### Breathing equipment:

Only during spraying without adequate removal by suction.

Filter A2 / P2 (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: ≥ 0.5 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.

(Contd. on page 5)

### according to 1907/2006/EC, Article 31

Revision: 17.01.2023 Printing date 23.01.2023 Version number 69 (replaces version 68)

Not applicable, as aerosol

Not miscible / difficult to mix

3900 hPa

Not applicable.

Trade name: Ceramic 1200

(Contd. of page 4)

#### 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: Light grey · Odour: Characteristic · Odour threshold: Not determined. · Melting point/freezing point: Not determined

· Boiling point or initial boiling point and boiling range

· Flammability

Lower and upper explosion limit

· Lower: 0.6 Vol % 10.9 Vol % · Upper:

· Flash point: Not applicable, as aerosol

· Ignition temperature: 365 °C

Decomposition temperature: Not determined.

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

· Viscosity:

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

· Water:

· Partition coefficient n-octanol/water (log value) Not determined.

· Vapour pressure at 20 °C:

Density and/or relative density

 Density at 20 °C 0.69 g/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:

489 g/I VOC Organic solvents: · Solids content: 27.9%

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

Void Pyrophoric liquids

(Contd. on page 6)

### according to 1907/2006/EC, Article 31

Printing date 23.01.2023 Version number 69 (replaces version 68) Revision: 17.01.2023

Trade name: Ceramic 1200

(Contd. of page 5) Pyrophoric solids · 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 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 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)
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)
75-28-5 Is	obutane	
	ErC 50	19.37 mg/l (Algae)
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)
13463-67-	7 Titanium d	dioxide [in powder form containing 1 % or more of particles with aerodynamic diameter ≤ 10 μm]
Oral	LD50	>20,000 mg/kg (Rat)
Dermal	LD50	>10,000 mg/kg (rbt)
	ErC 50	61 mg/l (Algae) (EPA 600/9-78-018, 72 hr)
64742-48-	9 Hydrocark	ons, C9-C11, n-alkanes, isoalkanes, cyclics, <2% aromatics
Oral	LD50	>5,000 mg/kg (Rat)
Dermal	LD50	>3,000 mg/kg (Rabbit)

- · Serious eye damage/irritation Causes serious eye irritation.
- · STOT-single exposure May cause drowsiness or dizziness.
- 11.2 Information on other hazards
- Endocrine disrupting properties

None of the ingredients is listed.

## according to 1907/2006/EC, Article 31

Printing date 23.01.2023 Version number 69 (replaces version 68) Revision: 17.01.2023

Trade name: Ceramic 1200

(Contd. of page 6)

#### SECTION 12: Ecological information

#### 12.1 Toxicity

· Aquatic toxic	ity:			
106-97-8 butane	e, 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 Propan	e liquefied			
EC50 (48 hr)	69.43 mg/l (Daphnia magna)			
LC50 (96 hr)	49.9 mg/l (Fish)			
75-28-5 Isobuta	ne			
EC50 (48 hr)	69.43 mg/l (Daphnia magna)			
LC50 (96 hr)	91.42 mg/l (Fish)			
8042-47-5 White	mineral oil, petroleum			
EC50 (48 hr)	500,000 mg/l (Daphnia magna)			
13463-67-7 Tita	nium dioxide [in powder form containing 1 % or more of particles with aerodynamic diameter ≤ 10 μm]			
LC50 (48 hr)	5.5 mg/l (Crustacea)			
LC50 (96 hr)	>100 mg/l (Oncorhynchus mykiss) (= OECD 203)			
64742-48-9 Hyd	rocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, <2% aromatics			
EL50 (72 hr)	>1,000 mg/l (Pseudokirchneriella subcapitata)			
ELO (48 hr)	1,000 mg/l (Daphnia magna)			
LL50 (96 hr)	>1,000 mg/l (Oncorhynchus mykiss)			
NOELR	100 mg/l (Pseudokirchneriella subcapitata) (72 hrs)			

- 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.

GB

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

Printing date 23.01.2023 Version number 69 (replaces version 68) Revision: 17.01.2023

Trade name: Ceramic 1200

(Contd. of page 7)

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 AEROSOLS, MARINE POLLUTANT AEROSOLS, flammable
14.3 Transport hazard class(es)	
ADR	
· Class · Label	2 5F Gases.
· IMDG, IATA	2.1
Class	2.1 Gases.
· Label	2.1
· 14.4 Packing group · ADR, IMDG, IATA	Void
14.5 Environmental hazards:	Not applicable.
14.6 Special precautions for user EMS Number: Stowage Code Segregation Code	Warning: Gases. 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. 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 IM instruments	Not applicable.
· Transport/Additional information:	
· ADR	
· Limited quantities (LQ) · Excepted quantities (EQ)	1L Code: E0 Not permitted as Excepted Quantity
Limited quantities (LQ)	
· Limited quantities (LQ) · Excepted quantities (EQ) · Transport category	Code: E0 Not permitted as Excepted Quantity 2

### according to 1907/2006/EC, Article 31

Printing date 23.01.2023 Version number 69 (replaces version 68) Revision: 17.01.2023

Trade name: Ceramic 1200

(Contd. of page 8)

#### **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
- 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	31.0

- · 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.

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

IATIA: 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

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

: 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

Eye Irrit. 2: Serious eye damage/eye irritation – 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 provious version altered. \*

Data compared to the previous version altered. \*