

Safety Data Sheet

according to 1907/2006/EC, Article 31

Printing date 09.11.2009

Revision: 28.09.2009

1 Identification of substance:

· Product details:

· Trade name: **Ceramic 1200 85235**

· Article number: 85235

· Application of the substance / the preparation Lubricant

· Manufacturer/Supplier:

Barnes Group KENT Limited

Pitreavie Crescent

Pitreavie Business Park

Dunfermline

Fife

KY11 8UQ

Tel: 01383 737393

Fax: 01383 620079

· Informing department: Product Safety Department

· Emergency information: fullertonj@kenturope.com

2 Hazards identification

· Hazard designation:



F+ Extremely flammable

N Dangerous for the environment

· Information pertaining to particular dangers for man and environment

The product has to be labelled due to the calculation procedure of the "General Classification guideline for preparations of the EU" in the latest valid version.

Warning! Pressurized container.

R 12 Extremely flammable.

R 51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

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

Keep out of the reach of children

· Classification system

The classification is in line with current EC lists. It is expanded, however, by information from technical literature and by information furnished by supplier companies.

· GHS label elements



Danger

H222 - Extremely flammable aerosol.



Warning

H400 - Very toxic to aquatic life.



Warning

H315 - Causes skin irritation.

H336 - May cause drowsiness or dizziness.

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

Keep out of the reach of children

· Prevention:

P210 Keep away from heat/sparks/open flames/hot surfaces. - No smoking.

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

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P251 Pressurized container: Do not pierce or burn, even after use.
 P261 Avoid breathing dust/fume/gas/mist/vapours/spray.
 P264 Wash thoroughly after handling.
 P271 Use only outdoors or in a well-ventilated area.

3 Composition/information on ingredients

· Chemical characterization

· **Description:** Mixture of the substances listed below with harmless additions.

· Dangerous components:

CAS: 106-97-8 EINECS: 203-448-7	butane (containing $\geq 0,1$ % butadiene (203-450-8)) F+; R 12 Danger: 2.2/1 Warning: 2.5/C	25-50%
CAS: 142-82-5 EINECS: 205-563-8	heptane Xn, Xi, F, N; R 11-38-50/53-65-67 Danger: 2.6/2; 3.10/1 Warning: 4.1.C/1; 3.2/2, 3.8/3	10-25%
CAS: 74-98-6 EINECS: 200-827-9	propane liquefied F+; R 12 Danger: 2.2/1 Warning: 2.5/C	2.5-10%

· **Additional information** For the wording of the listed risk phrases refer to section 16.

4 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.
- **After eye contact** Rinse opened eye for several minutes under running water.
- **After swallowing** Do not induce vomiting; instantly call for medical help.

5 Fire fighting measures

- **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.
- **Protective equipment:** Wear self-contained breathing apparatus.

6 Accidental release measures

- **Person-related safety precautions:** Wear protective equipment. Keep unprotected persons away.
- **Measures for environmental protection:**
Inform respective authorities in case product reaches water or sewage system.
Do not allow to enter drainage system, surface or ground water.
- **Measures for cleaning/collecting:** Ensure adequate ventilation.

7 Handling and storage

- **Handling**
- **Information 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.

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Storage

Requirements to be met by storerooms and containers:

Store in cool location.

Observe official regulations on storing packagings with pressurized 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.

8 Exposure controls and personal protection

Additional information about design of technical systems: No further data; see item 7.

Components with limit values that require monitoring at the workplace:

butane (containing $\geq 0,1$ % butadiene (203-450-8))

WEL	Short-term value: 1810 mg/m ³ , 750 ppm Long-term value: 1450 mg/m ³ , 600 ppm Carc (if more than 0.1% of buta-1.3-diene)
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heptane

WEL	Long-term value: 500 ppm
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Additional information: The lists that were valid during the compilation were used as basis.

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:

Use breathing protection in case of insufficient ventilation.

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.

Protection of hands:

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.

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 protection: Tightly sealed safety glasses.

Body protection: Protective work clothing.

9 Physical and chemical properties:

General Information

Form:	Aerosol
Colour:	Grey
Odour:	Characteristic

Change in condition

Melting point/Melting range:	Not determined
Boiling point/Boiling range:	-44°C

Flash point:	-97°C
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Ignition temperature:	215.0°C
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Self-inflammability:	Product is not selfigniting.
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Danger of explosion:	Product is not explosive. However, formation of explosive air/steam mixtures is possible.
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· **Critical values for explosion:**

Lower: 1.1 Vol %
Upper: 8.5 Vol %

· **Vapour pressure at 20°C:** 2100 hPa

· **Density at 20°C** 0.67400 g/cm³

· **Solubility in / Miscibility with**

Water: Not miscible or difficult to mix

· **Solvent content:**

Organic solvents: 456g/l VOC

10 Stability and reactivity

- **Thermal decomposition / conditions to be avoided:** No decomposition if used according to specifications.
- **Dangerous reactions** No dangerous reactions known
- **Dangerous products of decomposition:** No dangerous decomposition products known

11 Toxicological information

· **Acute toxicity:**

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

butane (containing $\geq 0,1$ % butadiene (203-450-8))

Inhalative	LC50/4 h	658 mg/l (rat)
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· **Primary irritant effect:**

- **on the skin:** No irritant effect.
- **on the eye:** No irritant effect.
- **Sensitization:** No sensitizing effect known.

12 Ecological information:

· **Ecotoxicological effects:**

· **Remark:** Toxic for fish

· **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

13 Disposal considerations

· **Product:**

· **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.

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14 Transport information

· Land transport ADR/RID (cross-border)



- ADR/RID-GGVS/E Class: 2 5F
- UN-Number: 1950
- Packaging group: -
- Label: 2.1
- Special marking: ?
- Designation of goods: 1950 AEROSOLS

· Maritime transport IMDG:



- IMDG Class: 2.1
- UN Number: 1950
- Label: 2.1
- Packaging group: -
- EMS Number: F-D,S-U
- Marine pollutant: No
- Correct technical name: AEROSOLS

· Air transport ICAO-TI and IATA-DGR:



- ICAO/IATA Class: 2.1
- UN/ID Number: 1950
- Label: 2.1
- Packaging group: -
- Correct technical name: AEROSOLS, flammable

- UN "Model Regulation": UN1950; AEROSOLS; 2.1; -

15 Regulatory information

· Designation according to EC guidelines:

The product has been classified and labelled in accordance with EC Directives / Ordinance on Hazardous Materials (GefStoffV)

· Code letter and hazard designation of product:



F+ Extremely flammable
N Dangerous for the environment

· Risk phrases:

12 Extremely flammable.
51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

· Safety phrases:

23 Do not breathe aerosol.
46 If swallowed, seek medical advice immediately and show this container or label.
51 Use only in well-ventilated areas.

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· **Special designation of certain preparations:**

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

Keep out of the reach of children

· **National regulations**

· **Technical instructions (air):**

Class	Share in %
NK	72.0

· **Water hazard class:** Water hazard class 2 (Self-assessment): hazardous for water.

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 R-phrases**

11 Highly flammable.

12 Extremely flammable.

38 Irritating to skin.

50/53 Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

65 Harmful: may cause lung damage if swallowed.

67 Vapours may cause drowsiness and dizziness.

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

· **Contact:** Marketing Department

· **Abbreviations and acronyms:**

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)

RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

IATA-DGR: Dangerous Goods Regulations by the "International Air Transport Association" (IATA)

ICAO: International Civil Aviation Organization

ICAO-TI: Technical Instructions by the "International Civil Aviation Organization" (ICAO)

GHS: Globally Harmonized System of Classification and Labelling of Chemicals

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

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