



PRODUCT SAFETY DATA SHEET

1. Identification of the substance/preparation and of the company/undertaking

Product details

Trade name: SILICONE GREASE

Article number: 18-32725-4800

Application of the substance / the preparation: Lubricant

Supplier: Fortron Marketing & Distribution, Farringdon Road, Cumnor, Oxford OX2 9RE

Emergency information: Emergency Phone Number : 07976540170 or 079767339153

2. Hazards identification

Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008

GHS02

Flam. Aerosol 1 H222 Extremely flammable aerosol.

GHS09

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

Classification according to Directive 67/548/EEC or Directive 1999/45/EC

F+ Extremely flammable

R12

N Dangerous for the environment

R51/53

R67

Information concerning particular hazards for human 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.

Has a narcotizing effect.

Classification system:

The classification is according to the latest editions of the EU-lists, and extended by company and literature data.

Label elements

Labelling according to Regulation (EC) No 1272/2008

Hazard pictograms

GHS02, GHS09

Signal word Danger

Hazard statements

H222 Extremely flammable aerosol.

H411 Toxic to aquatic life with long lasting effects.

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

Do not spray on a naked flame or any incandescent material. Keep away from sources of ignition – No smoking.

Precautionary statements

P101 If medical advice is needed, have product container or label at hand.

P102 Keep out of reach of children.

P103 Read label before use.

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

P251 Pressurized container: Do not pierce or burn, even after use.

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

P273 Avoid release to the environment.

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.

Labelling according to EU guidelines:

The product has been classified and marked in accordance with EU Directives / Ordinance on Hazardous Materials.

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.

67 Vapours may cause drowsiness and dizziness.

Safety phrases:

2 Keep out of the reach of children.

16 Keep away from sources of ignition — No smoking.

23 Do not breathe fumes/aerosol.

29 Do not empty into drains.

46 If swallowed, seek medical advice immediately and show this container or label.

51 Use only in well-ventilated areas.

Special labelling 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. Do not spray on a naked flame or any incandescent material. Buildup of explosive mixtures possible without sufficient ventilation.

3. Composition/information on ingredients

Chemical characterization

Description:

Active substance with propellant

Dangerous components:

106-97-8	butane (containing < 0.1% butadiene (203-450-8)) F+ R12 GHS02 Flam. Gas 1, H220; GHS04 Press. Gas, H280 EINECS: 203-448-7	25-<50 % >
74-98-6	propane F+ R12 GHS02 Flam. Gas 1, H220; GHS04 Press. Gas, H280 EINECS: 200-827-9	10-<25 % >
109-66-0	pentane Xn R65; F+ R12; N R51/53 R66-67 GHS02 Flam. Liq. 2, H225; GHS08 Asp. Tox. 1, H304; GHS09 Aquatic Chronic 2, H411; GHS07 STOT SE 3, H336 EINECS: 203-692-4	10-<25 % >
142-82-5	heptane Xn R65; Xi R38; F R11; N R50/53 R67 GHS02 Flam. Liq. 2, H225; GHS08 Asp. Tox. 1, H304; GHS09 Aquatic Acute 1, H400; Aquatic Chronic 1, H410; GHS07 Skin Irrit. 2, H315; STOT SE 3, H336 EINECS: 205-563-8	2.5-<10 % >
108-87-2	methylcyclohexane Xn R65; Xi R38; F R11; N R51/53 R67 GHS02 Flam. Liq. 2, H225; GHS08 Asp. Tox. 1, H304; GHS09 Aquatic Chronic 2, H411; GHS07 Skin Irrit. 2, H315; STOT SE 3, H336 EINECS: 203-624-3	1.0-<2.5 % >

4. First aid measures

After inhalation: Supply fresh air; consult doctor in case of complaints.

After skin contact: Generally the product does not irritate the skin.

After eye contact: Rinse opened eye for several minutes under running water.

After swallowing: Do not induce vomiting; call for medical help immediately.

5. Firefighting measures

Suitable extinguishing agents:

Water haze
Fire-extinguishing powder
Carbon dioxide
Alcohol resistant foam

For safety reasons unsuitable extinguishing agents: Water with full jet

Protective equipment: Mount respiratory protective device.

6. Accidental release measures

Person-related safety precautions: Wear protective equipment. Keep unprotected persons away.

Measures for environmental protection: Do not allow product to reach sewage system or any water course. Inform respective authorities in case of seepage into water course or sewage system. Do not allow to enter sewers/ 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. Open and handle receptacle with care.

Information about fire - and explosion protection:

Do not spray onto a naked flame or any incandescent material.
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.

Storage:

Requirements to be met by storerooms and receptacles: Store in a cool location. Observe official regulations on storing packagings with pressurized containers.

Information about storage in one common storage facility: Observe official regulations on storing packagings with pressurized containers.

Further information about storage conditions:

Keep receptacle tightly sealed.
Do not seal receptacle gas tight.
Store in cool, dry conditions in well sealed receptacles.
Protect from heat and direct sunlight.

8. Exposure controls/personal protection

Additional information about design of technical facilities:

No further data; see item 7.

Ingredients with limit values that require monitoring at the workplace:

106-97-8	butane (containing < 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)
74-98-6	propane WEL: Short-term value: 3600 mg/m ³ , 2000 ppm Long-term value: 1800 mg/m ³ , 1000 ppm
109-66-0	pentane WEL: Long-term value: 1800 mg/m ³ , 600 ppm
142-82-5	heptane WEL: Long-term value: 500 ppm

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

Personal protective equipment:

General protective and hygienic measures: Wash hands before breaks and at the end of work.
Do not inhale gases / fumes / aerosols.

Respiratory protection:

In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use self-contained respiratory protective device.
Use suitable respiratory protective device in case of insufficient ventilation.
Filter AX/P2

Protection of hands:

Solvent resistant gloves. Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

Material of gloves Nitrile rubber, NBR

Penetration time of glove material

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

Eye protection: Tightly sealed goggles

Body protection: Use protective suit.

9. Physical and chemical properties

General Information

Appearance:

Form: Aerosol

Colour: According to product specification

Odour: Characteristic

Value/Range Unit Method

Change in condition

Melting point/Melting range: Undetermined.

Boiling point/Boiling range: -44 °C

Flash point: -97 °C

Ignition temperature: 215 °C

Self-igniting: Product is not selfigniting.

Danger of explosion: Product is not explosive. However, formation of explosive air/vapour mixtures are possible.

Explosion limits:

Lower: 1.4 Vol %

Upper: 10.9 Vol %

Vapour pressure: at 20 °C 8300 hPa

Density: at 20 °C 0.651 g/cm³

Solubility in / Miscibility with

Water: Not miscible or difficult to mix.

Solvent content:

Organic solvents: 74.0 %

10. Stability and reactivity

Thermal decomposition / conditions to be avoided:

No decomposition if used according to specifications.

Materials to be avoided:

Dangerous reactions No dangerous reactions known.

Dangerous decomposition products: No dangerous decomposition products known.

11. Toxicological information

Acute toxicity:

Primary irritant effect:

on the skin: No irritant effect.

on the eye: No irritating effect.

Sensitization: No sensitizing effects known.

12. Ecological information

Ecotoxicological effects:

Acquatic toxicity:

109-66-0 pentane

EC50/48h: >5mg/l mg/l (Daphnia magna)

142-82-5 heptane

EC50/24h: >10 mg/l (Daphnia magna)

LC50(48h): 4924 mg/l (Fish)

108-87-2 methylcyclohexane

LC50(48h): 5 mg/l (Fish)

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 course or sewage system.

Danger to drinking water if even small quantities leak into the ground.

Also poisonous for fish and plankton in water bodies.

Toxic for aquatic organisms

13. Disposal considerations

Product:

Recommendation: Must not be disposed together with household garbage. Do not allow product to reach sewage system.

Uncleaned packaging:

Recommendation: Disposal must be made according to official regulations.

14. Transport information

Land transport ADR/RID (cross-border)

ADR/RID class: 2 5F Gases.

Danger code (Kemler): -

UN-Number: 1950

Packaging group: -

Hazard label 2.1

Special marking: Symbol (fish and tree)

Description of goods: 1950 AEROSOLS

Limited quantities (LQ) LQ2

Transport category 2

Tunnel restriction code D

Maritime transport IMDG:

IMDG Class: 2.1

UN Number: 1950

Label 2.1

Packaging group: -

EMS Number: F-D,S-U

Marine pollutant: No

Proper shipping name: AEROSOLS

Air transport ICAO-TI and IATA-DGR:

ICAO/IATA Class: 2.1

UN/ID Number: 1950

Label 2.1

Packaging group: -

Proper shipping name: AEROSOLS, flammable

UN "Model Regulation": UN1950, AEROSOLS, 2.1

15. Regulatory information

Chemical safety assessment A Chemical Safety Assessment has not been carried out.

National regulations:

Technical instructions (air):

Class Share in %

NK 50-100

VOC-CH 74.00 %

VOC-EU 481.7 g/l

Danish MAL Code 2-3

16. Other information

This information is based on our present knowledge. However, this 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. 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. R11 Highly flammable. R12 Extremely flammable. R38 Irritating to skin. R50/53 Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment. R51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment. R65 Harmful: may cause lung damage if swallowed. R66 Repeated exposure may cause skin dryness or cracking. R67 Vapours may cause drowsiness and dizziness.

Department issuing MSDS: Health & Safety 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

MAL-Code: Måleteknisk Arbejdshygienisk Luftbehov (Regulation for the labeling concerning inhalation hazards, Denmark)