

GRAFLOSCON® CA ULTRA SPRAY

Adhesive lubricant containing graphite



Description:

GRAFLOSCON CA ULTRA SPRAY is a solvent-containing mineral oil base adhesive lubricant with a high content of solid particles (fine graphite) applied by spray can. It contains an Al complex soap, can carry extreme loads and has good anticorrosion properties.

It does not contain bitumen, heavy metals or chlorine. The propellant is free from CFC.

Application fields:

GRAFLOSCON CA ULTRA SPRAY is suitable for the lubrication of small open gears (spur and bevel gears), slide and guide rails, cam disk operating surfaces, actuators, spindles, chains and wire ropes, even when subject to water and high temperatures. However, it is not suitable for friction pulley ropes.

Note:

GRAFLOSCON CA ULTRA SPRAY can also be used to check the dynamic load-carrying pattern of the components listed above.

Application notes:

Application by spray can.

Minimum shelf life:

The minimum shelf life is approx 36 months if the product is stored in the original closed container in a dry place.

GRAFLOSCON CA ULTRA SPRAY must not be exposed to direct heat (sunlight, radiant heaters, open fire, etc.).

Pack sizes:

400 ml can, in packages comprising 12, 48 or 72 cans.

GRAFLOSCON CA ULTRA SPRAY

- Easy application
- Suitable for small gears and surfaces
- Can carry high loads
- Suitable as an assembly aid
- Free from bitumen, heavy metals and chlorine
- Free from CFC

Product data (solvent-free product):

Colour	black
Texture	pasty
Density at 20 °C, g/cm ³ , DIN 51 757, approx.	1.07
Drop point, DIN ISO 2176, °C	> 220
Consistency class, DIN 51 818	NLGI 1
Base oil viscosity, corresponds to	ISO-VG 460
VKA welding force, DIN 51 350, Pt 4	≥ 4 200 N
Water resistance, DIN 51 807, Pt 1	0 – 40
Spray can functions from, to °C, approx.	– 10 to max. 50
Functional lubricant film, minimum temperature, °C to approx.	– 30
Thermal load-carrying limit of the lubricant film, depending on relubrication, maximum temperature, to °C, approx.	200

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Safety Data Sheet

1.1 Product name: GRAFLOSCON CA Ultra Spray Code-No.: 081 215 24.01.2002																								
1.2 Klüber Lubrication München KG Geisenhausenerstraße 7 D-81379 München Tel. ++49 - 89 78 76 - 0 telephone exchange Fax: ++49 - 89 78 76 - 333 Emergency telephone no.: ++49 - 89 7876 - 0																								
2. Composition / information on ingredients Chemical characterization (preparation): Mineral oil, aluminium complex soap, graphite, solvent: hydrocarbons, propellant: propane-butane Hazardous ingredients <table><tr><th>CAS-No.</th><th>Components</th><th>Value</th><th>Symbols</th><th>R-phrases</th></tr><tr><td>74-98-6</td><td>propane-butane</td><td>~ 50%</td><td>F+</td><td>12</td></tr><tr><td>106-97-8</td><td>butane</td><td>~ 50%</td><td>F+</td><td>12</td></tr><tr><td>64742-49-0</td><td>mineral oil distillate</td><td>~ 25%</td><td>Xn,F,N</td><td>11-65-51/53</td></tr></table>					CAS-No.	Components	Value	Symbols	R-phrases	74-98-6	propane-butane	~ 50%	F+	12	106-97-8	butane	~ 50%	F+	12	64742-49-0	mineral oil distillate	~ 25%	Xn,F,N	11-65-51/53
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3. Hazards identification F+ – Extremely flammable. Vapours may form explosive mixture with air																								
4. First aid measures After inhalation: Move to fresh air. If symptoms persist, call a physician After contact with skin: Wash off with soap and plenty of water After contact with eyes: Rinse with plenty of water After ingestion: Do not induce vomiting. Obtain medical attention Advice to doctor: Treat symptomatically																								
5. Fire-fighting measures Suitable extinguishing media: Water spray, foam, dry powder, carbon dioxide (CO ₂) Unsuitable extinguishing media: High volume water jet Special Hazards: In case of fire the following can be released: Carbon monoxide, hydrocarbons Special protective equipment for firefighters: Standard procedure for chemical fires Additional information: In the event of fire and/or explosion do not breathe fumes. Water mist may be used to cool closed containers.																								
6. Accidental release measures Personal precautions: Ensure adequate ventilation. Remove all sources of ignition Environmental precautions: Do not flush into surface water or sanitary sewer system Methods for cleaning up / taking up: Use mechanical handling equipment. Dispose of absorbed material in accordance with the regulations Additional information: None																								
7. Handling and storage Advice on safe handling: Use only in well-ventilated areas Advice on protection against fire and explosion: Keep away from sources of ignition – No smoking. Vapours may form explosive mixture with air Requirements on storage rooms and vessels: Observe your national regulations relating to the storage of containers under pressure Incompatible materials: Incompatible with oxidising agents. Do not store together with food Further information on storage conditions: Keep in a well-ventilated place. Keep away from heat																								
8. Exposure controls / personal protection Additional advice on system design: Provide adequate ventilation Ingredients and specific control parameters: TLV value of the propellant: 1000 ml/m ³ (Germany) Respiratory protection: No special protective equipment required Hand protection: No special protective equipment required Eye protection: No special protective equipment required Body protection: No special protective equipment required Other protection measures: No special protective equipment required General protection and hygiene measures: Avoid prolonged and/or repeated contact with skin. Clean skin thoroughly after work; apply skin cream. Do not breath vapours or spray mist																								

9. Physical and chemical properties Form: aerosol Colour: black Odour: characteristic Boiling point: > 65 °C, solvent Flash point: < – 20 °C, solvent Ignition temperature: ~ 260 °C, solvent Lower explosion limit: approx. 0.8 Vol.%, solvent Upper explosion limit: approx. 8.0 Vol.%, solvent Vapour pressure-first: approx. 170 hPa, 20 °C, solvent Density: approx. 0.90 g/cm ³ , 20 °C, agent Water solubility: insoluble pH value: not applicable Kinematic viscosity: not applicable Further information: none
10. Stability and reactivity Conditions to avoid: Protect from sun Materials to avoid: Strong oxidising agents (agent) Hazardous decomposition products: None under normal use Additional information: Fire or intense heat may cause violent rupture of packages
11. Toxicological information The toxicological data has been taken from products of similar composition Acute toxicity: LD ₅₀ /oral/rat = > 2 g/kg (literature data) Chronic toxicity: None Human experience: Prolonged skin contact may cause skin irritation and/or dermatitis
12. Ecological information Information on elimination (persistence and degradability): Product is insoluble in water. May be separated out mechanically in purification plants Behaviour in environmental compartments: Ecological injuries are not known or expected under normal use Ecotoxic effects: Aquatic toxicity is unlikely due to low solubility Additional information: Should not be released into the environment. This information refers to the agent
13. Advice on Disposal Code of waste: 150 199. Packaging: absorbents, wiping cloths, filter materials and protective clothing not otherwise specified; packaging Disposal: The code of waste has to correspond to the Council Directive 75/442/EEC and be specific as far as the related sector and process are concerned. Empty spray can as far as possible. Can be incinerated when in compliance with local, state and federal regulations Dispose of contaminated packaging and recommended cleaning: Dispose of as unused product. Offer empty spray cans to an established disposal company
14. Transport information GGVS/GGVE: Cl. 2, no. 5 F Name: Aerosol ADN/ADNR: no data available IMDG-Code: Class 2 UN number: 1950 Un packaging group: – EMS: 2 – 13 MFAG: 4.2. No Marine-pollutant Name: Aerosols ICAO/IATA-DGR: Class 2.1 UN/ID number: 1950 ICAO-packaging group: – Name: Aerosols, flammable, n.o.s Further information: None
15. Regulatory information Labelling according to EU-guidelines: The product is classified and labelled in accordance with EC-directives/German regulations on dangerous substances Hazards: F+ – Extremely flammable S phrases: 02-09-16-23-51. Keep out of the reach of children. Keep container in a well-ventilated place. Keep away from sources of ignition – No smoking. Do not breathe vapour/spray. Use only in well-ventilated areas Special labelling on 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. National regulations
16. Other information Issue-department of Safety Data Sheet: Chemical Documentation, Tel.: ++49-89 7876-564

The data in this product information is based on our general experience and knowledge at the time of printing and is intended to give information of possible applications to a reader with technical experience. It constitutes neither an assurance of product properties nor does it release the user from the obligation of performing preliminary tests with the selected product. We recommend contacting our Technical Consulting Staff to discuss your specific application. If required and possible we will be pleased to provide a sample for testing. Klüber products are continually improved. Therefore, Klüber Lubrication reserves the right to change all the technical data in this product information at any time without notice.



Klüber Lubrication München KG, a member of the Freudenberg group