

Safety Data Sheet

acc. to OSHA HCS

1 Identification

- **Product identifier**
- **Trade name:** CHAINLUBE OFF ROAD SPRAY
- **Application of the substance / the mixture**
Lubrication, anticorrosive
Only for proper handling.
- **Details of the supplier of the safety data sheet**
- **Manufacturer/Supplier:**
BUCHER_AG_LANGENTHAL
MOTOREX-Schmiertechnik

2 Hazard(s) identification

- **Classification of the substance or mixture**



GHS02 Flame

Flam. Aerosol 1 H222-H229 Extremely flammable aerosol. Pressurized container: May burst if heated.

- **Label elements**
- **GHS label elements**
The product is classified and labeled according to the Globally Harmonized System (GHS).
- **Hazard pictograms**



GHS02

- **Signal word** *Danger*
- **Hazard statements**
H222-H229 Extremely flammable aerosol. Pressurized container: May burst if heated.
- **Precautionary statements**
P210 Keep away from heat/sparks/open flames/hot surfaces. No smoking.
P251 Do not pierce or burn, even after use.
P211 Do not spray on an open flame or other ignition source.

(Contd. on page 2)

Safety Data Sheet

acc. to OSHA HCS

Trade name: CHAINLUBE OFF ROAD SPRAY

(Contd. of page 1)

P410+P412 Protect from sunlight. Do not expose to temperatures exceeding 50°C/122°F.

· **Classification system:**

· **NFPA ratings (scale 0 - 4)**



Health = 0

Fire = 4

Reactivity = 3

· **HMS-ratings (scale 0 - 4)**



Health = 0

Fire = 4

Reactivity = 3

· **Other hazards**

· **Results of PBT and vPvB assessment**

· **PBT:** Not applicable.

· **vPvB:** Not applicable.

3 Composition/information on ingredients

· **Chemical characterization: Mixtures**

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

· **Dangerous components:**

| | | |
|--|--|----------|
| CAS: 106-97-8 Reg.nr.: 01-2119474691-32 | butane ⚠ Flam. Gas 1, H220; Press. Gas, H280 | 10-25% |
| CAS: 64742-48-9 Reg.nr.: 01-2119463258-33 | Hydrocarbons, C10-C13, n-alkanes, isoalkanes, cycloalkanes, <2% aromatics ⚠ Asp. Tox. 1, H304 | 10-25% |
| CAS: 74-98-6 Reg.nr.: 01-2119486944-21 | propane ⚠ Flam. Gas 1, H220; Press. Gas, H280 | 2.5-7.5% |

4 First-aid measures

· **Description of first aid measures**

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

· **After skin contact:** Remove residues with soap and water.

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

· **After swallowing:** If symptoms persist consult doctor.

· **Information for doctor:**

· **Most important symptoms and effects, both acute and delayed**

No further relevant information available.

· **Indication of any immediate medical attention and special treatment needed**

No further relevant information available.

5 Fire-fighting measures

· **Extinguishing media**

· **Suitable extinguishing agents:**

CO₂, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

· **Special hazards arising from the substance or mixture**

No further relevant information available.

(Contd. on page 3)

Safety Data Sheet

acc. to OSHA HCS

Trade name: CHAINLUBE OFF ROAD SPRAY

(Contd. of page 2)

- **Advice for firefighters**
- **Protective equipment:** No special measures required.

6 Accidental release measures

- **Personal precautions, protective equipment and emergency procedures**
Wear protective equipment. Keep unprotected persons away.
- **Environmental precautions:** Do not allow to enter sewers/ surface or ground water.
- **Methods and material for containment and cleaning up:** Ensure adequate ventilation.
- **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 disposal information.

7 Handling and storage

- **Handling:**
- **Precautions for safe handling** No special precautions are necessary if used correctly.
- **Information about protection against explosions and fires:**
Keep ignition sources away - Do not smoke.
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 a naked flame or any incandescent material.
- **Conditions for safe storage, including any incompatibilities**
- **Storage:**
- **Requirements to be met by storerooms and receptacles:**
Observe official regulations on storing packagings with pressurized containers.
- **Information about storage in one common storage facility:** Not required.
- **Further information about storage conditions:** Keep receptacle tightly sealed.
- **Storage class:** 2 B
- **Specific end use(s)** No further relevant information available.

8 Exposure controls/personal protection

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

· **Components with limit values that require monitoring at the workplace:**

106-97-8 butane

| | |
|-----|---|
| REL | Long-term value: 1900 mg/m ³ , 800 ppm |
| TLV | Short-term value: 2370 mg/m ³ , 1000 ppm |

74-98-6 propane

| | |
|-----|--|
| PEL | Long-term value: 1800 mg/m ³ , 1000 ppm |
| REL | Long-term value: 1800 mg/m ³ , 1000 ppm |
| TLV | refer to Appendix F in TLVs and BEIs book |

- **Additional information:** The lists that were valid during the creation were used as basis.
- **Exposure controls**
- **Personal protective equipment:**
- **General protective and hygienic measures:**
Wash hands before breaks and at the end of work.

(Contd. on page 4)

Safety Data Sheet

acc. to OSHA HCS

Trade name: CHAINLUBE OFF ROAD SPRAY

(Contd. of page 3)

- **Breathing equipment:** Not required.
- **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:** Not required.

9 Physical and chemical properties

- | | |
|--|-----------------------------|
| · Information on basic physical and chemical properties | |
| · General Information | |
| · Appearance: | |
| Form: | Liquefied gas |
| Color: | Light yellow |
| Odor: | typical, characteristic |
| Odor threshold: | Not determined. |
| · pH-value: Not determined. | |
| · Change in condition | |
| Melting point/Melting range: | Undetermined. |
| Boiling point/Boiling range: | Not applicable, as aerosol. |
| · Flash point: < -5 °C (< 23 °F) | |
| · Flammability (solid, gaseous): Not applicable. | |
| · Ignition temperature: 365 °C (689 °F) (DIN 51794) | |
| · Decomposition temperature: Not determined. | |
| · Auto igniting: Product is not selfigniting. | |
| · Danger of explosion: Product is not explosive. However, formation of explosive air/vapor mixtures are possible. | |
| · Explosion limits: | |
| Lower: | 1.5 Vol % |
| Upper: | 8.5 Vol % |
| · Vapor pressure at 20 °C (68 °F): 2100 hPa (1575 mm Hg) | |
| · Density at 20 °C (68 °F): 0.811 g/cm ³ (6.768 lbs/gal) (ASTM D 4052) | |
| · Relative density Not determined. | |
| · Vapor density Not determined. | |
| · Evaporation rate Not applicable. | |

(Contd. on page 5)

Safety Data Sheet

acc. to OSHA HCS

Trade name: CHAINLUBE OFF ROAD SPRAY

(Contd. of page 4)

- | | |
|---|---|
| · Solubility in / Miscibility with Water: | Not miscible or difficult to mix. |
| · Partition coefficient (n-octanol/water): | Not determined. |
| · Viscosity: | |
| Dynamic: | Not determined. |
| Kinematic: | < 1 mm ² /s @40 °C (DIN 51562-1) |
| VOC content: | 38.1 % |
| | 308.7 g/l / 2.58 lb/gl |
| · Other information | No further relevant information available. |

10 Stability and reactivity

- **Reactivity** No further relevant information available.
- **Chemical stability**
- **Thermal decomposition / conditions to be avoided:**
No decomposition if used according to specifications.
- **Possibility of hazardous reactions** No dangerous reactions known.
- **Conditions to avoid** No further relevant information available.
- **Incompatible materials:** No further relevant information available.
- **Hazardous decomposition products:** No dangerous decomposition products known.

11 Toxicological information

- **Information on toxicological effects**
- **Acute toxicity:**
- **Primary irritant effect:**
- **on the skin:** No irritant effect.
- **on the eye:** No irritating effect.
- **Sensitization:** No sensitizing effects known.
- **Additional toxicological information:**

- **Carcinogenic categories**

- **IARC (International Agency for Research on Cancer)**

| | | |
|-----------|----------------------------|---|
| 5989-27-5 | (R)-p-mentha-1,8-diene | 3 |
| 128-37-0 | 2,6-di-tert-butyl-p-cresol | 3 |

- **NTP (National Toxicology Program)**

None of the ingredients is listed.

- **OSHA-Ca (Occupational Safety & Health Administration)**

None of the ingredients is listed.

12 Ecological information

- **Toxicity**
- **Aquatic toxicity:** No further relevant information available.
- **Persistence and degradability** No further relevant information available.
- **Behavior in environmental systems:**
- **Bioaccumulative potential** No further relevant information available.
- **Mobility in soil** No further relevant information available.

(Contd. on page 6)

Safety Data Sheet

acc. to OSHA HCS

Trade name: CHAINLUBE OFF ROAD SPRAY



(Contd. of page 5)

- **Additional ecological information:**
- **General notes:**
Water hazard class 1 (Self-classification according VwVwS, 17.05.1999): slightly hazardous for water
Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.
- **Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.
- **Other adverse effects** No further relevant information available.

13 Disposal considerations

- **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.
Discharged containers can contain flammable or explosive vapours.

14 Transport information

- | | |
|---|---|
| <ul style="list-style-type: none"> · UN-Number · DOT, ADR, ADN, IMDG, IATA | <p style="text-align: center;">UN1950</p> |
| <ul style="list-style-type: none"> · UN proper shipping name · DOT, IATA · ADR/ADN · IMDG | <p style="text-align: center;">Aerosols, flammable 1950 Aerosols AEROSOLS</p> |
| <ul style="list-style-type: none"> · Transport hazard class(es) · DOT | |
|  | |
| <ul style="list-style-type: none"> · Class · Label | <p style="text-align: center;">2.1 2.1</p> |
| <ul style="list-style-type: none"> · ADR/ADN | |
|  | |
| <ul style="list-style-type: none"> · Class | <p style="text-align: center;">2 5F Gases</p> |


(Contd. on page 7)

Safety Data Sheet

acc. to OSHA HCS

Trade name: CHAINLUBE OFF ROAD SPRAY

(Contd. of page 6)

| | |
|---|--|
| · Label | 2.1 |
| · IMDG, IATA | |
|  | |
| · Class | 2.1 |
| · Label | 2.1 |
| · Packing group | |
| · DOT, ADR, ADN, IMDG, IATA | Void |
| · Environmental hazards: | |
| · Marine pollutant: | No |
| · Special precautions for user | Warning: Gases |
| · Danger code (Kemler): | - |
| · EMS Number: | F-D, S-U |
| · Stowage Code | 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. |
| · Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code | Not applicable. |
| · Transport/Additional information: | |
| · ADR/ADN | |
| · Excepted quantities (EQ) | Code: E0 Not permitted as Excepted Quantity |
| · IMDG | |
| · Limited quantities (LQ) | 1L |
| · Excepted quantities (EQ) | Code: E0 Not permitted as Excepted Quantity |
| · UN "Model Regulation": | UN 1950 AEROSOLS, 2.1 |

15 Regulatory information

- **Safety, health and environmental regulations/legislation specific for the substance or mixture**
- **Sara**

· **Section 355 (extremely hazardous substances):**

None of the ingredients is listed.

(Contd. on page 8)

Safety Data Sheet

acc. to OSHA HCS

Trade name: CHAINLUBE OFF ROAD SPRAY

(Contd. of page 7)

· **Section 313 (Specific toxic chemical listings):**

None of the ingredients is listed.

· **TSCA (Toxic Substances Control Act):**

| | |
|------------|--|
| 9003-13-8 | Polypropylenglycolmonobutylether |
| 106-97-8 | butane |
| 74-98-6 | propane |
| 75-28-5 | isobutane |
| 68425-15-0 | Polysulfides, di-tert-dodecyl |
| 78-78-4 | isopentane |
| 5989-27-5 | (R)-p-mentha-1,8-diene |
| 128-37-0 | 2,6-di-tert-butyl-p-cresol |
| 110-25-8 | N-Oleoyl-sarcosid |
| 91273-04-0 | N,N-bis(2-ethylhexyl)-((1,2,4-triazol-1-yl)methyl)amine |
| 94270-86-7 | 1H-Benzotriazole-1-methanamine, N,N-bis(2-ethylhexyl)-ar-methyl- |
| 5392-40-5 | Citral |
| 80939-62-4 | Amine, C11-14-verzweigte Alkyl-, Monoexyl und Dihexylphosphate |
| 27859-58-1 | (Tetrapropenyl)bernsteinsäure |
| 106-22-9 | Citronellol |

· **Proposition 65**

· **Chemicals known to cause cancer:**

None of the ingredients is listed.

· **Chemicals known to cause reproductive toxicity for females:**

None of the ingredients is listed.

· **Chemicals known to cause reproductive toxicity for males:**

None of the ingredients is listed.

· **Chemicals known to cause developmental toxicity:**

None of the ingredients is listed.

· **Carcinogenic categories**

· **EPA (Environmental Protection Agency)**

None of the ingredients is listed.

· **TLV (Threshold Limit Value established by ACGIH)**

| | | |
|----------|----------------------------|----|
| 128-37-0 | 2,6-di-tert-butyl-p-cresol | A4 |
| 127-91-3 | beta-Pinene | A4 |
| 80-56-8 | pin-2(3)-ene | A4 |

· **NIOSH-Ca (National Institute for Occupational Safety and Health)**

None of the ingredients is listed.

· **National chemical directories**

Components listed or exempted from listing:

TSCA (USA)

DSL/NDSL (CDN)

AICS (Aus)

IECSC (CN)

EINECS/ELINCS/NLP (EU)

ECL/KECI (KOR)

HSNO (NZ)

(Contd. on page 9)

Safety Data Sheet

acc. to OSHA HCS

Trade name: CHAINLUBE OFF ROAD SPRAY

PICCS (RP)

(Contd. of page 8)

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

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.

- **Department issuing SDS:**
- **Date of preparation / last revision** 03/22/2016 / -
- **Abbreviations and acronyms:**
 - Flam. Gas 1: Flammable gases, Hazard Category 1
 - Flam. Aerosol 1: Flammable aerosols, Hazard Category 1
 - Press. Gas: Gases under pressure: Compressed gas
 - Asp. Tox. 1: Aspiration hazard, Hazard Category 1

US