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

· 1.1 Product identifier

· Trade name: S100 Dry Lube Chain Spray

· Article number: 3455, 3456

- 1.2 Relevant identified uses of the substance or mixture and uses advised against Void
- · Application of the substance / the mixture Maintenance product
- · 1.3 Details of the supplier of the safety data sheet
- · Manufacturer/Supplier:

Dr. O.K. Wack Chemie GmbH

Bunsenstraße 6 DE-85053 Ingolstadt Tel.: +49 841 635-0 Mail: info@dr-wack.com www.dr-wack.com

· Further information obtainable from: Safety department

· 1.4 Emergency telephone number: During business hours: +49 841 635-23

SECTION 2: Hazards identification

- · 2.1 Classification of the substance or mixture
- · Classification according to Regulation (EC) No 1272/2008

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

Eye Irrit. 2 H319 Causes serious eye irritation.

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 CLP regulation.

· Hazard pictograms





GHS02 GHS07

· **Signal word** Danger

· Hazard statements

H222-H229 Extremely flammable aerosol. Pressurised container: May burst if heated.

H319 Causes serious eye irritation.

H412 Harmful to aquatic life with long lasting effects.

· Precautionary statements

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

P102 Keep out of reach of children.

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 spray.

P271 Use only outdoors or in a well-ventilated area.

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

present and easy to do. Continue rinsing.

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.

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· Additional information:

Contains Fatty acids, tall-oil, reaction products with boric acid (H3BO3) and diethanolamine. May produce an allergic reaction.

- · 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 with nonhazardous additions.

| · Dangerous components: | | |
|---|--|---------|
| CAS: 64-17-5 EINECS: 200-578-6 Reg.nr.: 01-2119457610-43-xxxx | ethanol Flam. Liq. 2, H225; Eye Irrit. 2, H319 Specific concentration limit: Eye Irrit. 2; H319: C ≥ 50 % | 25-<35% |
| CAS: 106-97-8 EINECS: 203-448-7 | butane Flam. Gas 1A, H220; Press. Gas (Comp.), H280 | 10-<20% |
| CAS: 74-98-6 EINECS: 200-827-9 | propane Flam. Gas 1A, H220; Press. Gas (Comp.), H280 | 10-<20% |
| CAS: 1569-01-3 EINECS: 216-372-4 Reg.nr.: 01-2119474443-37-xxxx | 1-propoxypropan-2-ol Flam. Liq. 3, H226; Eye Irrit. 2, H319 | 10-<15% |
| CAS: 64742-94-5 EC number: 918-811-1 Reg.nr.: 01-2119463583-34-xxxx | Hydrocarbons, C10 aromatics Asp. Tox. 1, H304; Aquatic Chronic 2, H411; STOT SE 3, H336, EUH066 | 5-10% |
| CAS: 91770-03-5 EINECS: 294-785-9 Reg.nr.: 01-2119961359-26-xxxx | Fatty acids, tall-oil, reaction products with boric acid (H3BO3) and diethanolamine Skin Sens. 1B, H317 Specific concentration limit: Skin Sens. 1B; H317: C ≥ 7 % | <3% |
| CAS: 28016-00-4 Reg.nr.: 01-2120130528-59-xxxx | Zinkbis-(dinonylnaphtalinsulfonat) Eye Dam. 1, H318; Skin Irrit. 2, H315 | 1-<3% |

- · SVHC None
- · 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
- · General information: Take affected persons out into the fresh air.
- · After inhalation: Supply fresh air; consult doctor in case of complaints.
- · After skin contact: After contact with skin, wash immediately with plenty of soap and water.
- After eye contact:

Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.

- · After swallowing:
- If swallowed, do not induce vomiting: seek medical advice immediately and show this container or label.
- · 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.

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SECTION 5: Firefighting measures

- 5.1 Extinguishing media
- · Suitable extinguishing agents:

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

- · For safety reasons unsuitable extinguishing agents: Water with full jet
- · 5.2 Special hazards arising from the substance or mixture

Formation of toxic gases is possible during heating or in case of fire.

- 5.3 Advice for firefighters
- · Protective equipment: Wear self-contained respiratory protective device.
- · Additional information

Danger of bursting.

Cool endangered receptacles with water spray.

SECTION 6: Accidental release measures

· 6.1 Personal precautions, protective equipment and emergency procedures

Keep away from ignition sources.

Ensure adequate ventilation

Avoid contact with skin and eyes.

Wear protective clothing.

· 6.2 Environmental precautions:

Do not allow to penetrate the ground/soil.

Do not allow to enter sewers/ surface or ground water.

· 6.3 Methods and material for containment and cleaning up:

Ensure adequate ventilation.

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).

Dispose contaminated material as waste according to item 13.

· 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 disposal information.

SECTION 7: Handling and storage

· 7.1 Precautions for safe handling

Use only in well ventilated areas.

Avoid contact with skin and eyes.

Keep away from heat and direct sunlight.

Information about fire - and explosion protection:

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

Keep ignition sources away - Do not smoke.

Pressurised 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.

- · 7.2 Conditions for safe storage, including any incompatibilities
- · Storage:
- · Requirements to be met by storerooms and receptacles:

Store in a cool location.

Observe official regulations on storing packagings with pressurised containers.

- · Information about storage in one common storage facility: Store away from foodstuffs.
- Further information about storage conditions:

Store in a cool place. Heat will increase pressure and may lead to the receptacle bursting. Protect from heat and direct sunlight.

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Premium-Pflege

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· 7.3 Specific end use(s) No further relevant information available.

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SECTION 8: Exposure controls/personal protection

· 8.1 Control parameters

| · Ingre | dients with limit values that require monitoring at the workplace: |
|---------|--|
| 64-17 | -5 ethanol |
| WEL | Long-term value: 1920 mg/m³, 1000 ppm |
| | |

1,900 mg/m³ (Worker)

106-97-8 butane

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)

| | 1 | | | |
|---|---|---|----|---|
| • | ח | N | FI | • |
| | | | | |

64-17-5 ethanol

| Oral | DNEL system. effects (long-term) | 87 mg/kg KG/Tag (Consumer) |
|------------|----------------------------------|-----------------------------|
| Dermal | DNEL systemic effects | 343 mg/kg (Worker) |
| | DNEL system. effects (long-term) | 206 mg/kg KG/Tag (Consumer) |
| Inhalative | DNEL system. effects (long-term) | 114 mg/m³ (Consumer) |
| | | 950 mg/m³ (Worker) |
| | DNEL local effects (short-term) | 950 mg/m³ (Consumer) |

| 1569-01-3 1-propoxypropan-2-ol | | |
|--------------------------------|----------------------------------|----------------------------|
| Oral | DNEL system. effects (long-term) | 11 mg/kg KG/Tag (Consumer) |
| Dermal | DNEL system. effects (long-term) | |
| | | 82.5 mg/kg KG/Tag (Worker) |
| Inhalativa | DNEL system effects (long-term) | 38 ma/m³ (Consumer) |

Inhalative | DNEL system. effects (long-term) | 38 mg/m³ (Consumer) 263 mg/m³ (Worker)

64742-94-5 Hydrocarbons, C10 aromatics

| Orai | DINEL System. effects (long-term) | 7.5 mg/kg KG/Tag (Consumer) |
|------------|-----------------------------------|-----------------------------|
| Dermal | DNEL system. effects (long-term) | 7.5 mg/kg KG/Tag (Consumer) |
| | | 12.5 mg/kg KG/Tag (Worker) |
| Inhalative | DNEL system. effects (long-term) | 32 mg/m³ (Consumer) |
| | | 151 mg/m³ (Worker) |

28016-00-4 Zinkbis-(dinonylnaphtalinsulfonat)

| Dermal | DNEL system. | effects (long-term) | 0.316 mg/kg (Consumer) |
|------------|--------------|---------------------|------------------------|
| Inhalative | DNEL system. | effects (long-term) | 2.23 mg/m³ (Consumer) |

· PNECs

64-17-5 ethanol

PNEC 0.79 mg/l (Meerwasser) 0.96 mg/l (fresh water)

1569-01-3 1-propoxypropan-2-ol

PNEC | 0.01 mg/l (Meerwasser) 0.1 mg/l (fresh water)

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

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- · 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:

The usual precautionary measures are to be adhered to when handling chemicals.

Ensure good ventilation/exhaustion at the workplace.

Keep away from foodstuffs, beverages and feed.

Be sure to clean skin thoroughly after work and before breaks.

Avoid contact with the eyes and skin.

- · Respiratory protection: Not necessary if room is well-ventilated.
- · Hand protection

Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation. Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

· Material of gloves

Nitrile rubber, NBR

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

· Eye/face protection Safety glasses

SECTION 9: Physical and chemical properties

· 9.1 Information on basic physical and chemical properties

· General Information

Physical state
Colour:
Odour:
Odour threshold:
Melting point/freezing point:

Aerosol
Yellow-brown
Product specific
Not determined.
Undetermined.

· Boiling point or initial boiling point and boiling

range -44 °C

· Flammability Not applicable.

Lower and upper explosion limit

Lower: 1.3 Vol %
 Upper: 15.0 Vol %
 Flash point: -97 °C

· Auto-ignition temperature: Product is not selfigniting.

Decomposition temperature: Not determined.pH Not determined.

· Viscosity:

Kinematic viscosityDynamic:Not determined.Not determined.

· Solubility

· water: Not miscible or difficult to mix.

• Partition coefficient n-octanol/water (log value) Not determined. • Vapour pressure at 20 °C: 8300 hPa

Density and/or relative density

· **Density:** Not determined.

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(Contd. of page 5) · Relative density Not determined. · Vapour density Not determined. · 9.2 Other information · Appearance: Aerosol · Form: · Important information on protection of health and environment, and on safety. · Ignition temperature: 365 °C Explosive properties: Product is not explosive. However, formation of explosive air/vapour mixtures are possible. · 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 · Pyrophoric liquids Void · Pyrophoric solids Void · 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:

Store in a cool place. Heat will increase pressure and may lead to the receptacle bursting.

- · 10.3 Possibility of hazardous reactions Reacts with strong oxidising agents.
- · 10.4 Conditions to avoid No further relevant information available.
- 10.5 Incompatible materials: Store away from oxidising agents.
- · 10.6 Hazardous decomposition products:

No decomposition if used and stored according to specifications.

In case of fire, the following can be released:

Carbon monoxide and carbon dioxide

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SECTION 11: Toxicological information

- · 11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008
- · Acute toxicity

| | Acute toxicity | | |
|------------|---|------------------------------|--|
| · LD/LC50 | · LD/LC50 values relevant for classification: | | |
| 64-17-5 et | 64-17-5 ethanol | | |
| Oral | LD50 | 10,470 mg/kg (rat) | |
| Dermal | LD50 | >2,000 mg/kg (rabbit) | |
| Inhalative | LC50/4 h | >20 mg/l (mouse) | |
| 106-97-8 | butane | | |
| Inhalative | LC50/4 h | 658 mg/l (rat) | |
| 1569-01-3 | 1-propox | ypropan-2-ol | |
| Oral | LD50 | >2,000 mg/kg (rat) | |
| Dermal | LD50 | >2,000 mg/kg (rabbit) | |
| 64742-94- | 5 Hydroca | arbons, C10 aromatics | |
| Oral | LD50 | >5,000 mg/kg (rat) | |
| Dermal | LD50 | >2,000 mg/kg (rabbit) | |
| Inhalative | LC50 | >2-20 mg/l (rat) | |
| 9003-13-8 | Polyprop | ylenglykolmonobutylether | |
| Oral | LD50 | >2,000 mg/kg (rat) | |
| Dermal | LD50 | >2,000 mg/kg (rabbit) | |
| 28016-00- | 4 Zinkbis- | dinonylnaphtalinsulfonat) | |
| Oral | LD50 | >2,000 mg/kg (rat) | |
| Dermal | LD50 | >10,000 mg/kg (rabbit) | |
| Inhalative | LC50/6 h | >7.6 mg/l (rat) | |
| | LC50 | >0.28 mg/l (Cyprinus carpio) | |

- · Specific symptoms in biological assay: Not determined
- · Skin corrosion/irritation No irritating effect.
- Serious eye damage/irritation Causes serious eye irritation.
- · 11.2 Information on other hazards
- · Endocrine disrupting properties

None of the ingredients is listed.

SECTION 12: Ecological information

· 12.1 Toxicity

| 12.1 loxicity | | |
|--------------------------------------|---------------------------------|-----------------|
| · Aquatic toxicity: | | |
| 64-17-5 ethanol | | |
| EC50/48h | >10,000 mg/l (daphnia magna) | |
| LC50/48h 8,140 mg/l (leuciscus idus) | | |
| 1569-01-3 1-propoxypropan-2-ol | | |
| LC50/96h (static) | >100 mg/l (oncorhynchus mykiss) | |
| EC50 (static) 3,800 mg/l (Bacteria) | | |
| LC50/48h (static) | >100 mg/l (daphnia magna) | |
| | | (Contd. on page |

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| 64742 04 5 11 | 64742-94-5 Hydrocarbons, C10 aromatics (Contd. of page | | |
|---------------|--|--|--|
| 04/42-94-3 H | · · · · · · · · · · · · · · · · · · · | | |
| LC50 | >1-≤10 mg/l (Fish) | | |
| | >1- <u>≤</u> 10 mg/l (algae) | | |
| 28016-00-4 Zi | inkbis-(dinonylnaphtalinsulfonat) | | |
| EC0/48h | >0.2 mg/l (daphnia magna) | | |
| EC50 | 1.2 mg/l (algae) | | |

- · 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 course or sewage system.

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

Harmful to aquatic organisms

SECTION 13: Disposal considerations

- · 13.1 Waste treatment methods
- · Recommendation Disposal must be made according to official regulations.
- Uncleaned packaging:
- · Recommendation: Disposal must be made according to official regulations.

| 14.1 UN number or ID number | | |
|---------------------------------|---------------------|--|
| ADR, IMDG, IATA | UN1950 | |
| 14.2 UN proper shipping name | | |
| ADR | 1950 AEROSOLS | |
| IMDG | AEROSOLS | |
| IATA | AEROSOLS, flammable | |
| 14.3 Transport hazard class(es) | | |
| ADR | | |
| Class | 2 5F Gases. | |
| Label | 2.1 | |
| IMDG, IATA | | |
| Class | 2.1 | |
| Label | 2.1 | |
| 14.4 Packing group | | |
| ADR, IMDG, IATA | Void | |

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| | (Contd. of page |
|---|--|
| 14.5 Environmental hazards: | |
| Marine pollutant: | No |
| 14.6 Special precautions for user | Warning: Gases. |
| Hazard identification number (Kemler code): | - |
| 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. |
| 14.7 Maritime transport in bulk according to IM | 10 |
| instruments | Not applicable. |
| Transport/Additional information: | |
| ADR | |
| Limited quantities (LQ) | 1L |
| Excepted quantities (EQ) | Code: E0 |
| | Not permitted as Excepted Quantity |
| Transport category | 2 |
| Tunnel restriction code | D |
| IMDG | |
| Limited quantities (LQ) | 1L |
| Excepted quantities (ÉQ) | Code: E0 |
| | Not permitted as Excepted Quantity |
| UN "Model Regulation": | UN 1950 AEROSOLS, 2.1 |
| | |

SECTION 15: Regulatory information

- · 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture No further relevant information available.
- · 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
- · 15.2 Chemical safety assessment: A Chemical Safety Assessment has been carried out.

SECTION 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.

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| | | (Contd. of page 9) |
|---|--|--------------------|
| H225 | Highly flammable liquid and vapour. | |
| H226 | 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. | |
| H317 | May cause an allergic skin reaction. | |
| H318 | Causes serious eye damage. | |
| H319 | Causes serious eye irritation. | |
| H336 | May cause drowsiness or dizziness. | |
| H411 | Toxic to aquatic life with long lasting effects. | |
| EUH066 | Repeated exposure may cause skin dryness or cracking. | |
| · Abbreviations and acronyms: | | |
| | 1A: Flammable gases – Category 1A | |
| | Aerosols – Category 1 | |
| | s (Comp.): Gases under pressure – Compressed gas | |
| • | 2: Flammable liquids – Category 2 | |
| | 3: Flammable liquids – Category 3 | |
| Skin Irrit. 2: Skin corrosion/irritation – Category 2 | | |
| • | 1: Serious eye damage/eye irritation – Category 1 | |
| | : Serious eye damage/eye irritation – Category 2 . 1B: Skin sensitisation – Category 1B | |
| | 3: Specific target organ toxicity (single exposure) – Category 3 | |
| | 1: Aspiration hazard – Category 1 | |
| | nronic 2: Hazardous to the aquatic environment - long-term aquatic hazard – Category 2 | |
| | pronic 3: Hazardous to the aquatic environment - long-term aquatic hazard — Category 3 | |
| | ompared to the previous version altered. | |
| | | |

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