



Tribol GR 400-2 PD

Safety Data Sheet

according to the United Nations GHS (Rev. 4, 2011)

Issue date: 30/10/2023

Revision date: 30/10/2023

Version: 1.0

SECTION 1: Identification

1.1. GHS Product identifier

| | |
|---------------|--------------------|
| Product form | Mixture |
| Trade name | Tribol GR 400-2 PD |
| Product code | BU ETA |
| Product group | Trade product |

1.2. Other means of identification

No additional information available

1.3. Recommended use of the chemical and restrictions on use

| | |
|-----------------------------------|--|
| Recommended uses and restrictions | For professional use only |
| Recommended use | Lubricants, Greases and Release Products |

1.4. Supplier's details

Supplier

Hilti Emirates L.L.C.
Dubai Investment Park
P.O. Box 11051
AE- Dubai
United Arab Emirates
T +971 800 44584 - F +971 4 885 4405
ae.contactus@hilti.com - www.hilti.ae

Manufacturer

Castrol Germany GmbH
Überseeallee 1
20457 Hamburg
Germany

Department issuing data specification sheet

Hilti Entwicklungsgesellschaft mbH
Hiltistraße 6
DE- 86916 Kaufering
Deutschland
T +49 8191 906876
anchor.hse@hilti.com

1.5. Emergency phone number

| | |
|------------------|--|
| Emergency number | Emergency CONTACT (24-Hour-Number): GBK GmbH Global Regulatory Compliance +49 (0)6132-84463 +971 4 8019694 800-Hilti (44584) (Toll free) |
|------------------|--|

SECTION 2: Hazard identification

2.1. Classification of the substance or mixture

Classification according to the United Nations GHS

Hazardous to the aquatic environment – Chronic Hazard, Category 3 H412

Calculation method

Full text of H-statements: see section 16

2.2. GHS Label elements, including precautionary statements

Labelling according to the United Nations GHS

| | |
|-----------------------------------|--|
| Signal word (GHS UN) | - |
| Hazard statements (GHS UN) | H412 - Harmful to aquatic life with long lasting effects |
| Precautionary statements (GHS UN) | P273 - Avoid release to the environment. P501 - Dispose of contents/container to |

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2.3. Other hazards which do not result in classification

No additional information available

SECTION 3: Composition/information on ingredients

3.1. Substances

Not applicable

3.2. Mixtures

| Name | Product identifier | % | Classification according to the United Nations GHS |
|---------------------------------|--------------------|---------|--|
| 2,6-di-tert-butyl-4-nonylphenol | CAS-No.: 4306-88-1 | 0.1 – 1 | Skin sensitisation, category 1B, H317 Hazardous to the aquatic environment – Acute Hazard, Category 1, H400 Hazardous to the aquatic environment – Chronic Hazard, Category 1, H410 |
| lithium hydroxide | CAS-No.: 1310-65-2 | 0.1 – 1 | Acute toxicity (oral), Category 4, H302 Acute toxicity (inhalation:dust,mist) Category 3, H331 Skin corrosion/irritation, Category 1B, H314 Serious eye damage/eye irritation, Category 1, H318 Reproductive toxicity, Category 1A, H360 Hazardous to the aquatic environment – Acute Hazard, Category 3, H402 Hazardous to the aquatic environment – Chronic Hazard, Category 3, H412 |

Full text of H-statements: see section 16

SECTION 4: First-aid measures

4.1. Description of necessary first-aid measures

| | |
|---------------------------------------|--|
| First-aid measures general | First aider: Pay attention to self-protection!. |
| First-aid measures after inhalation | IF INHALED: Remove person to fresh air and keep comfortable for breathing. |
| First-aid measures after skin contact | Wash with soap and water. Remove all contaminated clothing and footwear. If case of redness or irritation, call a doctor. |
| First-aid measures after eye contact | IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. |
| First-aid measures after ingestion | Do NOT induce vomiting unless directed to do so by medical personnel. |

4.2. Most important symptoms/effects, acute and delayed

| | |
|-------------------------------------|--|
| Symptoms/effects after inhalation | None under normal use. |
| Symptoms/effects after skin contact | Repeated dermal contact with material can lead to defatting of the skin. |
| Symptoms/effects after eye contact | None under normal conditions. |
| Symptoms/effects after ingestion | None under normal conditions. |

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4.3. Indication of immediate medical attention and special treatment needed, if necessary

High pressure injection of product under the skin can have very serious consequences even without apparent symptoms or injuries.

SECTION 5: Fire-fighting measures

5.1. Suitable extinguishing media

| | |
|--------------------------------|---|
| Suitable extinguishing media | Foam, powder. |
| Unsuitable extinguishing media | Warning: water promotes the spread of fire. |

5.2. Specific hazards arising from the chemical

| | |
|--|--|
| Fire hazard | No fire hazard. |
| Hazardous decomposition products in case of fire | Carbon oxides (CO, CO ₂). Metallic oxides. |

5.3. Special protective actions for fire-fighters

| | |
|-----------------------------|---|
| Precautionary measures fire | No action shall be taken without appropriate training or involving any personal risk. |
| Other information | Do not allow run-off from fire fighting to enter drains or water courses. |

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

| | |
|------------------|---|
| General measures | Prevent from entering sewers, basements and workpits, or any place where its accumulation can be dangerous. |
|------------------|---|

6.1.1. For non-emergency personnel

| | |
|----------------------|---|
| Emergency procedures | If spilled, may cause the floor to be slippery. |
|----------------------|---|

6.1.2. For emergency responders

No additional information available

6.2. Environmental precautions

Prevent liquid from entering sewers, watercourses, underground or low areas.

6.3. Methods and materials for containment and cleaning up

| | |
|-------------------------|---|
| Methods for cleaning up | Clean up any spills as soon as possible, using an absorbent material to collect it. |
| Other information | Dispose of materials or solid residues at an authorized site. |

SECTION 7: Handling and storage

7.1. Precautions for safe handling

| | |
|-------------------------------|---|
| Precautions for safe handling | Avoid contact with skin, eyes and clothing. |
| Hygiene measures | Do not eat, drink or smoke when using this product. |

7.2. Conditions for safe storage, including any incompatibilities

| | |
|--------------------|---|
| Storage conditions | Opened containers must be carefully closed and kept upright to avoid leakage. |
|--------------------|---|

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

No additional information available

8.2. Appropriate engineering controls

No additional information available

8.3. Individual protection measures, such as personal protective equipment (PPE)

No additional information available

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8.4. Exposure limit values for the other components

No additional information available

SECTION 9: Physical and chemical properties

9.1. Basic physical and chemical properties

| | |
|---|-----------------------------|
| Physical state | Solid |
| Colour | brown. |
| Odour | No data available. |
| Odour threshold | Not available |
| Melting point | Not available |
| Freezing point | Not available |
| Boiling point | Not available |
| Flammability | Not available |
| Lower explosion limit | Not applicable |
| Upper explosion limit | Not applicable |
| Flash point | 268 °C |
| Auto-ignition temperature | Not applicable |
| Decomposition temperature | Not available |
| pH | Not available |
| pH solution | Not available |
| Viscosity, kinematic (calculated value) (40 °C) | Not applicable |
| Partition coefficient n-octanol/water (Log Kow) | Not available |
| Vapour pressure | Not available |
| Vapour pressure at 50°C | Not available |
| Density | < 1 g/cm ³ |
| Relative density | Not available |
| Relative vapour density at 20°C | Not applicable |
| Solubility | Not soluble in water alone. |
| Particle size | Not available |

9.2. Data relevant with regard to physical hazard classes (supplemental)

No additional information available

SECTION 10: Stability and reactivity

10.1. Reactivity

No additional information available.

10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

10.4. Conditions to avoid

No flames, no sparks. Eliminate all sources of ignition.

10.5. Incompatible materials

Oxidizing materials.

10.6. Hazardous decomposition products

No hazardous decomposition products known.

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SECTION 11: Toxicological information

11.1. Information on toxicological effects

| | |
|-----------------------------|----------------|
| Acute toxicity (oral) | Not classified |
| Acute toxicity (dermal) | Not classified |
| Acute toxicity (inhalation) | Not classified |

| lithium hydroxide (1310-65-2) | |
|-----------------------------------|---|
| LD50 oral rat | 330 mg/kg (Rat, Female, Weight of evidence, Oral) |
| LD50 dermal rat | > 2000 mg/kg (OECD 402: Acute Dermal Toxicity, 24 h, Rat, Male / female, Experimental value, Dermal, 14 day(s)) |
| LC50 Inhalation - Rat | 3400 g/m ³ |
| LC50 Inhalation - Rat (Dust/Mist) | 0.96 mg/l/4h |
| Skin corrosion/irritation | Not classified |
| Serious eye damage/irritation | Not classified |
| Respiratory or skin sensitisation | Not classified |
| Germ cell mutagenicity | Not classified |
| Carcinogenicity | Not classified |
| Reproductive toxicity | Not classified |
| STOT-single exposure | Not classified |
| STOT-repeated exposure | Not classified |
| Aspiration hazard | Not classified |

SECTION 12: Ecological information

12.1. Toxicity

| | |
|--|--|
| Hazardous to the aquatic environment, short-term (acute) | Not classified |
| Hazardous to the aquatic environment, long-term (chronic) | Harmful to aquatic life with long lasting effects. |
| Classification procedure (Hazardous to the aquatic environment, long-term (chronic)) | Calculation method |

| lithium hydroxide (1310-65-2) | |
|-------------------------------|---|
| LC50 - Fish [1] | 62.2 mg/l (OECD 203: Fish, Acute Toxicity Test, 96 h, Danio rerio, Static system, Fresh water, Calculated value, Nominal concentration) |
| EC50 - Crustacea [1] | 19.1 mg/l (OECD 202: Daphnia sp. Acute Immobilisation Test, 48 h, Daphnia magna, Static system, Fresh water, Experimental value, Locomotor effect) |
| ErC50 algae | 87.57 mg/l (OECD 201: Alga, Growth Inhibition Test, 72 h, Pseudokirchneriella subcapitata, Static system, Fresh water, Calculated value, Nominal concentration) |

12.2. Persistence and degradability

| Tribol GR 400-2 PD | |
|-------------------------------|-------------------------------------|
| Persistence and degradability | No additional information available |
| lithium hydroxide (1310-65-2) | |
| Not rapidly degradable | |
| Persistence and degradability | Biodegradability: not applicable. |
| Chemical oxygen demand (COD) | Not applicable (inorganic) |
| ThOD | Not applicable (inorganic) |

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| | |
|--|--|
| 2,6-di-tert-butyl-4-nonylphenol (4306-88-1) | |
| Not rapidly degradable | |

12.3. Bioaccumulative potential

| | |
|--------------------------------------|-------------------------------------|
| Tribol GR 400-2 PD | |
| Bioaccumulative potential | No additional information available |
| lithium hydroxide (1310-65-2) | |
| Bioaccumulative potential | Not bioaccumulative. |

12.4. Mobility in soil

| | |
|--------------------------------------|---------------------------------------|
| Tribol GR 400-2 PD | |
| Mobility in soil | No additional information available |
| lithium hydroxide (1310-65-2) | |
| Surface tension | No data available in the literature |
| Ecology - soil | Low potential for adsorption in soil. |

12.5. Other adverse effects

| | |
|-----------------------|-------------------------------------|
| Ozone | Not classified |
| Other adverse effects | No additional information available |

SECTION 13: Disposal considerations

13.1. Disposal methods

No additional information available

SECTION 14: Transport information

In accordance with ADR / IMDG / IATA / RID /

| ADR | IMDG | IATA | RID |
|---|----------------|----------------|----------------|
| 14.1. UN number or ID number | | | |
| Not applicable | Not applicable | Not applicable | Not applicable |
| 14.2. UN proper shipping name | | | |
| Not applicable | Not applicable | Not applicable | Not applicable |
| 14.3. Transport hazard class(es) | | | |
| Not applicable | Not applicable | Not applicable | Not applicable |
| 14.4. Packing group | | | |
| Not applicable | Not applicable | Not applicable | Not applicable |
| 14.5. Environmental hazards | | | |
| Not applicable | Not applicable | Not applicable | Not applicable |
| No supplementary information available | | | |

14.6. Special precautions for user

Overland transport

Not applicable



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Transport by sea

Not applicable

Air transport

Not applicable

Rail transport

Not applicable

14.7. Maritime transport in bulk according to IMO instruments

Not applicable

SECTION 15: Regulatory information

15.1. Safety, health and environmental regulations specific for the product in question

No additional information available

SECTION 16: Other information

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| Full text of H-statements: | |
|-------------------------------------|---|
| Acute Tox. 3 (Inhalation:dust,mist) | Acute toxicity (inhalation:dust,mist) Category 3 |
| Acute Tox. 4 (Oral) | Acute toxicity (oral), Category 4 |
| Aquatic Acute 1 | Hazardous to the aquatic environment – Acute Hazard, Category 1 |
| Aquatic Acute 3 | Hazardous to the aquatic environment – Acute Hazard, Category 3 |
| Aquatic Chronic 1 | Hazardous to the aquatic environment – Chronic Hazard, Category 1 |
| Eye Dam. 1 | Serious eye damage/eye irritation, Category 1 |
| Repr. 1A | Reproductive toxicity, Category 1A |
| Skin Corr. 1B | Skin corrosion/irritation, Category 1B |
| Skin Sens. 1B | Skin sensitisation, category 1B |
| H302 | Harmful if swallowed |
| H314 | Causes severe skin burns and eye damage |
| H317 | May cause an allergic skin reaction |
| H318 | Causes serious eye damage |
| H331 | Toxic if inhaled |
| H360 | May damage fertility or the unborn child |
| H400 | Very toxic to aquatic life |
| H402 | Harmful to aquatic life |
| H410 | Very toxic to aquatic life with long lasting effects |
| H412 | Harmful to aquatic life with long lasting effects |

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This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.