

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006 (REACH), (EU) 2020/878

Revision date: 7 Jul 2025

Print date: 10 Jul 2025

Version: 5

Page 1/17



Power Lube 400ml

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

1.1. Product identifier

Trade name/designation:

Power Lube 400ml

Article No.:

T221101

UFI:

78MM-S9G5-310S-8WYC

1.2. Relevant identified uses of the substance or mixture and uses advised against

Use of the substance/mixture:

Lubricating agent

* 1.3. Details of the supplier of the safety data sheet

Supplier:

KANDO Service GmbH

Hartleitnerstraße 3

4653 Eberstälzell

Austria

Telephone: +43 (0) 7241 213 79

E-mail: msds@kando.eu

1.4. Emergency telephone number

Vergiftungsinformationszentrale (VIZ), Stubenring 6, 1010 Wien, 24h: 01 406 43 43, Montag - Freitag: 8 bis 16 Uhr, Tel.: 01 406 68 98 (keine medizinische Auskunft) (Only available during office hours.)

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008 [CLP]

Hazard classes and hazard categories	Hazard statements	Classification procedure
aerosol dispensers and lighters (<i>Aerosol 1</i>)	H222; H229: Extremely flammable aerosol. Pressurised container: May burst if heated.	
Skin corrosion/irritation (<i>Skin Irrit. 2</i>)	H315: Causes skin irritation.	
Serious eye damage/eye irritation (<i>Eye Irrit. 2</i>)	H319: Causes serious eye irritation.	
Hazardous to the aquatic environment (<i>Aquatic Chronic 3</i>)	H412: Harmful to aquatic life with long lasting effects.	

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006 (REACH), (EU) 2020/878

Revision date: 7 Jul 2025

Print date: 10 Jul 2025

Version: 5



Page 2/17

Power Lube 400ml

2.2. Label elements

Labelling according to Regulation (EC) No. 1272/2008 [CLP]

Hazard pictograms:



GHS02
Flame



GHS07
Exclamation mark

Signal word: Danger

Hazard statements for physical hazards

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

Hazard statements for health hazards

H315	Causes skin irritation.
H319	Causes serious eye irritation.

Hazard statements for environmental hazards

H412	Harmful to aquatic life with long lasting effects.
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Supplemental hazard information

EUH208	Contains Benzenesulfonic acid, di-C10-18-alkyl derivs., calcium salts. May produce an allergic reaction.
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Precautionary statements Prevention

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.
P264	Wash hands thoroughly after handling.
P273	Avoid release to the environment.
P280	Wear protective gloves/protective clothing and eye protection/face protection.

Precautionary statements Response

P305 + P351 + P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P337 + P313	If eye irritation persists: Get medical advice/attention.
P362 + P364	Take off contaminated clothing and wash it before reuse.

Precautionary statements Storage

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

P501	Dispose of contents/container to an appropriate recycling or disposal facility.
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2.3. Other hazards

Other adverse effects:

This mixture does not contain substances classified as PBT or vPvB substances.

SECTION 3: Composition/information on ingredients

3.2. Mixtures

Additional information:

There are no additional ingredients present which, according to the supplier's current knowledge, are classified as harmful to health or the environment in the applicable concentrations, are PBT or vPvB substances or substances of equivalent concern, or which have an occupational exposure limit and would therefore need to be reported in this section.

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006 (REACH), (EU) 2020/878

Revision date: 7 Jul 2025

Print date: 10 Jul 2025

Version: 5



Page 3/17

Power Lube 400ml

The wording of the listed hazard statements can be found in section 16.

Hazardous ingredients / Hazardous impurities / Stabilisers:

Product identifiers	Substance name Classification according to Regulation (EC) No 1272/2008 [CLP]	Concentration
CAS No.: 74-98-6 EC No.: 200-827-9 Index No.: 601-003-00-5 REACH No.: 01-2119486944-21	propane Flam. Gas 1A (H220), Press. Gas (Comp.) (H280) Danger Acute Toxicity Estimate ATE (oral) 5,840 mg/kg ATE (dermal) 13,900 mg/kg ATE (inhalation, gases) > 25 ppmV ATE (inhalation, vapour) ≥ 50 mg/L	≥ 25 - ≤ 50 %
CAS No.: 106-97-8 EC No.: 203-448-7 Index No.: 601-004-00-0 REACH No.: 01-2119474691-32	butane Flam. Gas 1A (H220), Press. Gas (Comp.) (H280) Danger Acute Toxicity Estimate ATE (oral) ≥ 5,000 mg/kg ATE (dermal) ≥ 5,000 mg/kg ATE (inhalation, gases) 658 ppmV ATE (inhalation, vapour) ≥ 50 mg/L	≥ 25 - ≤ 50 %
CAS No.: 64742-49-0 EC No.: 265-151-9 Index No.: 649-328-00-1	Naphtha (petroleum), hydrotreated light Aquatic Chronic 2 (H411), Asp. Tox. 1 (H304), Flam. Liq. 2 (H225), STOT SE 3 (H336), Skin Irrit. 2 (H315) Danger	≤ 14 %
CAS No.: 1305-62-0 EC No.: 215-137-3 REACH No.: 01-2119475151-45	calcium dihydroxide Eye Dam. 1 (H318), STOT SE 3 (H335), Skin Irrit. 2 (H315) Danger Acute Toxicity Estimate ATE (oral) 7,340 mg/kg	< 3 %
CAS No.: 7429-90-5 EC No.: 231-072-3 Index No.: 013-002-00-1 REACH No.: 01-2119529243-45	Aluminium powder Flam. Sol. 1 (H228), Water-react. 2 (H261) Danger	≤ 3 %
CAS No.: 7440-50-8 EC No.: 231-159-6 Index No.: 029-024-00-X REACH No.: 01-2119480154-42	copper Acute Tox. 4 (H302), Aquatic Acute 1 (H400), Aquatic Chronic 2 (H411) Warning M-factor (acute): 10 Acute Toxicity Estimate ATE (oral) > 2,000 mg/kg ATE (dermal) 300 - 2,500 mg/kg ATE (inhalation, gases) 5.11 ppmV ATE (inhalation, dust/mist) 5.11 mg/L	≤ 1.4 %
CAS No.: 93820-57-6 EC No.: 298-637-4	Benzenesulfonic acid, di-C10-18-alkyl derivs., calcium salts Skin Sens. 1 (H317) Warning	< 1 %
CAS No.: 1314-13-2 EC No.: 215-222-5 Index No.: 030-013-00-7 REACH No.: 01-2119463881-32	zinc oxide Aquatic Acute 1 (H400), Aquatic Chronic 1 (H410) Warning M-factor (acute): 1 M-factor (chronic): 1 Acute Toxicity Estimate ATE (oral) > 5,000 mg/kg ATE (dermal) > 2,000 mg/kg ATE (inhalation, gases) > 5,700 ppmV	≤ 0.87 %

Full text of H- and EUH-phrases: see section 16.

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006 (REACH), (EU) 2020/878

Revision date: 7 Jul 2025

Print date: 10 Jul 2025

Version: 5

Page 4/17



Power Lube 400ml

SECTION 4: First aid measures

4.1. Description of first aid measures

Following inhalation:

Immediately call Poison Control Centre or a doctor. Remove the affected person to fresh air and immobilise in a position that facilitates breathing. If vapours are still suspected, the rescuer must wear a suitable respirator or self-contained breathing apparatus. If breathing is absent or irregular or if respiratory arrest occurs, artificial respiration or oxygen administration shall be initiated by trained personnel. It may be dangerous for the person giving first aid to give mouth-to-mouth resuscitation. If unconscious, place in the recovery position and seek immediate medical attention. Keep the airway open. Loosen tight-fitting clothing (e.g. collar, tie, belt or waistband).

In case of skin contact:

Immediately call Poison Control Centre or a doctor. Rinse contaminated skin with plenty of water. Remove contaminated clothing and shoes. Wash contaminated clothing thoroughly with water before removing or wear gloves when doing so. Rinse continuously for at least 10 minutes. Chemical burns must be treated immediately by a doctor. Wash clothing before wearing again. Clean shoes thoroughly before reuse.

After eye contact:

Immediately call Poison Control Centre or a doctor. Immediately flush eyes with plenty of water and occasionally lift upper and lower eyelids. Check for contact lenses and remove if present. Rinse continuously for at least 10 minutes. Chemical burns must be treated immediately by a doctor.

Following ingestion:

Immediately call Poison Control Centre or a doctor. Rinse mouth with water. Remove dentures if present. If the substance has been swallowed and the person is conscious, give small amounts of water to drink. If nausea occurs, do not allow to continue drinking as vomiting can be dangerous. Do not induce vomiting unless specifically instructed to do so by medical personnel. If vomiting occurs, keep the head low so that the vomit does not enter the lungs. Chemical burns must be treated immediately by a doctor. Never administer anything by mouth to an unconscious person. If unconscious, place in recovery position and seek immediate medical attention. Keep airways open. Loosen tight-fitting clothing (e.g. collar, tie, belt or waistband).

Self-protection of the first aider:

No action should be taken that involves personal risk or has not been adequately trained. If it is suspected that there are still vapours are still present, the rescuer must wear a suitable respirator or self-contained breathing apparatus. It may be dangerous for the person giving first aid to perform mouth-to-mouth resuscitation. Wash contaminated clothing thoroughly with water before removing it or wear gloves when doing so.

4.2. Most important symptoms and effects, both acute and delayed

Following inhalation: Cough, Irritation to respiratory tract

In case of skin contact: Pain, Redness, Blistering may occur.

After eye contact: Pain, Tear flow, Redness

Following ingestion: Stomach pain

4.3. Indication of any immediate medical attention and special treatment needed

Treat symptomatically. In case of ingestion or inhalation of large quantities, contact the Poison Control Centre specialist immediately.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media:

Use an extinguishing agent that is also suitable for adjacent fires.

Unsuitable extinguishing media:

None known.

5.2. Special hazards arising from the substance or mixture

Extremely flammable aerosol. There is a risk of fire and explosion if it enters the sewage system. When heated or on fire, a pressure rise occurs and the container may burst, creating an explosion hazard. Gas can accumulate in low-lying or enclosed areas or spread very far to an ignition source and cause flashback with fire or explosion. In the event of fire, bursting aerosol canisters can fly around at great

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006 (REACH), (EU) 2020/878

Revision date: 7 Jul 2025

Print date: 10 Jul 2025

Version: 5

Page 5/17



Power Lube 400ml

speed. This material is very toxic to aquatic organisms. This material is toxic to aquatic organisms and has long-term effects. Extinguishing water contaminated with this material must be contained and must not enter water bodies, sewers or drains.

Hazardous combustion products:

Carbon dioxide, Carbon monoxide, Metal Oxides/Oxides

5.3. Advice for firefighters

In case of fire, immediately seal off the scene and evacuate all persons from the danger area. No action should be taken that involves personal risk or has not been adequately trained.

5.4. Additional information

Firefighters should wear appropriate protective clothing and self-contained breathing apparatus with full facepiece operated in positive pressure mode. Clothing for firefighters (including helmet, protective boots and protective gloves) that complies with the European Standard EN 469 gives a basic protection in case of accidents with chemicals.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

6.1.1. For non-emergency personnel

Personal precautions:

No action should be taken that involves personal risk or has not been adequately trained. Evacuate the area. Deny access to non-essential and unprotected personnel. Do not touch or walk on spilled substance. Do not breathe vapour or mist. Ensure adequate ventilation. Wear respirator if ventilation is inadequate. Put on suitable personal protective equipment.

6.1.2. For emergency responders

Personal protection equipment:

If special clothing is needed to handle the spill, refer to section 8 on suitable and unsuitable materials. See also information in "Non-emergency trained personnel".

6.2. Environmental precautions

Do not allow to enter into surface water or drains. In case of spillage into water or sewage system, inform the competent authorities. Substance is water polluting. May be harmful to the environment if released in large quantities. Absorb spilled quantities.

6.3. Methods and material for containment and cleaning up

For cleaning up:

Eliminate leakage if safe to do so. Remove container from the discharge area. Dilute with water and wipe up if water soluble. Alternatively, or if insoluble in water, absorb with an inert dry material and place in a suitable waste container. Dispose of via a recognised waste disposal company.

6.4. Reference to other sections

Further information on proper storage: see section 7.

For further information on personal protective equipment: see section 8.

For further information on disposal: see section 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Protective measures

Advices on safe handling:

Put on suitable protective equipment (see section 8). Do not get in eyes or on skin or clothing. Do not breathe vapour or mist. Do not swallow. Avoid release to the environment. If the material presents a respiratory hazard in normal use, use only with adequate ventilation or wear suitable respiratory protection. Store in the original container or an approved replacement container made of a compatible material. Keep tightly closed when not in use. Empty containers contain product residues and may be hazardous. Do not reuse containers.

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006 (REACH), (EU) 2020/878

Revision date: 7 Jul 2025

Print date: 10 Jul 2025

Version: 5

Page 6/17



Power Lube 400ml

Advices on general occupational hygiene

The usual precautions when handling chemicals must be observed. Do not eat, drink, smoke or snort while working. Do not inhale dust/fume/mist. Keep away from food, drink and animal feed. Wash hands before breaks and at the end of work.

7.2. Conditions for safe storage, including any incompatibilities

Technical measures and storage conditions:

Store according to local regulations. Store only in the original container. Protect from direct sunlight. Store only in dry, cool and well-ventilated areas. Do not store with incompatible substances (see section 10) or with food or drink. Store under lock and key. Keep containers tightly closed and sealed until use. Containers which have been opened should be carefully closed and stored upright to prevent leakage. Do not store in unlabelled containers. Use suitable containers to avoid environmental contamination. Remove all sources of ignition.

Storage class (TRGS 510, Germany): 2B – Aerosol dispensers and lighters

7.3. Specific end use(s)

Recommendation:

No data available

Industrial sector specific solutions:

No data available

SECTION 8: Exposure controls/personal protection

* 8.1. Control parameters

8.1.1. Occupational exposure limit values

Limit value type (country of origin)	Substance name	① Long-term occupational exposure limit value ② Short-term occupational exposure limit value ③ Instantaneous value ④ Monitoring and observation processes ⑤ Remark
MAK (AT)	propane CAS No.: 74-98-6 EC No.: 200-827-9	② 2,000 ppm (3,600 mg/m ³) ⑤ (max. 3x60 min./Schicht, Momentanwert)
MAK (AT)	propane CAS No.: 74-98-6 EC No.: 200-827-9	① 1,000 ppm (1,800 mg/m ³)
MAK (AT)	butane CAS No.: 106-97-8 EC No.: 203-448-7	① 800 ppm (1,900 mg/m ³)
MAK (AT)	butane CAS No.: 106-97-8 EC No.: 203-448-7	② 1,600 ppm (3,800 mg/m ³) ⑤ (max. 3x60 min./Schicht, Momentanwert)
MAK (AT)	Naphtha (petroleum), hydrotreated light CAS No.: 64742-49-0 EC No.: 265-151-9	① 200 mL/m ³ ② 400 mL/m ³ ⑤ (für Kohlenwasserstoffgemische mit einem Gehalt an aromatischen Kohlenwasserstoffen von weniger als 1 %, an n-Hexan von weniger als 5 % und an Cyclo-/Isohexanen von weniger als 25 %)
MAK (AT)	Naphtha (petroleum), hydrotreated light CAS No.: 64742-49-0 EC No.: 265-151-9	① 170 mL/m ³ ② 340 mL/m ³ ⑤ (für Kohlenwasserstoffgemische mit einem Gehalt an aromatischen Kohlenwasserstoffen von weniger als 1 %, an n-Hexan von weniger als 5 % und an Cyclo-/Isohexanen von 25 % oder mehr)
MAK (AT)	calcium dihydroxide CAS No.: 1305-62-0 EC No.: 215-137-3	② 4 mg/m ³ ⑤ (einatembare Fraktion max. 8x5 min./Schicht, Momentanwert)

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006 (REACH), (EU) 2020/878

Revision date: 7 Jul 2025

Print date: 10 Jul 2025

Version: 5



Page 7/17

Power Lube 400ml

Limit value type (country of origin)	Substance name	① Long-term occupational exposure limit value ② Short-term occupational exposure limit value ③ Instantaneous value ④ Monitoring and observation processes ⑤ Remark
IOELV (EU) from 21 Feb 2017	calcium dihydroxide CAS No.: 1305-62-0 EC No.: 215-137-3	① 1 mg/m ³ ② 4 mg/m ³ ⑤ (respirable fraction)
MAK (AT) from 2 Sept 2020	calcium dihydroxide CAS No.: 1305-62-0 EC No.: 215-137-3	① 1 mg/m ³ ⑤ (einatembare Fraktion)
MAK (AT) from 11 Sept 2007	Aluminium powder CAS No.: 7429-90-5 EC No.: 231-072-3	① 10 mg/m ³ ⑤ (einatembare Fraktion)
MAK (AT) from 11 Sept 2007	Aluminium powder CAS No.: 7429-90-5 EC No.: 231-072-3	② 20 mg/m ³ ⑤ (einatembare Fraktion, max. 2x60 min./Schicht)
MAK (AT) from 11 Sept 2007	Aluminium powder CAS No.: 7429-90-5 EC No.: 231-072-3	① 5 mg/m ³ ⑤ (alveolengängige Fraktion)
MAK (AT) from 11 Sept 2007	Aluminium powder CAS No.: 7429-90-5 EC No.: 231-072-3	② 10 mg/m ³ ⑤ (alveolengängige Fraktion, max. 2x60 min./Schicht)
MAK (AT)	copper CAS No.: 7440-50-8 EC No.: 231-159-6	① 1 mg/m ³ ② 4 mg/m ³ ⑤ (einatembare Fraktion, max. 4x15 min./Schicht)
MAK (AT)	copper CAS No.: 7440-50-8 EC No.: 231-159-6	① 0.1 mg/m ³ ② 0.4 mg/m ³ ⑤ (alveolengängige Fraktion max. 4x15 min./Schicht)
MAK (AT)	zinc oxide CAS No.: 1314-13-2 EC No.: 215-222-5	① 5 mg/m ³ ⑤ (alveolengängige Fraktion)

8.1.2. Biological limit values

No data available

8.1.3. DNEL-/PNEC-values

Substance name	DNEL value	① DNEL type ② Exposure route
Naphtha (petroleum), hydrotreated light CAS No.: 64742-49-0 EC No.: 265-151-9	1.9 mg/m ³	① DNEL worker ② Long-term - inhalation, systemic effects
Naphtha (petroleum), hydrotreated light CAS No.: 64742-49-0 EC No.: 265-151-9	0.41 mg/m ³	① DNEL Consumer ② Long-term - inhalation, systemic effects
Naphtha (petroleum), hydrotreated light CAS No.: 64742-49-0 EC No.: 265-151-9	1,286.4 mg/m ³	① DNEL worker ② Acute - inhalation, systemic effects
Naphtha (petroleum), hydrotreated light CAS No.: 64742-49-0 EC No.: 265-151-9	1,152 mg/m ³	① DNEL Consumer ② Acute - inhalation, systemic effects

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006 (REACH), (EU) 2020/878

Revision date: 7 Jul 2025

Print date: 10 Jul 2025

Version: 5



Page 8/17

Power Lube 400ml

Substance name	DNEL value	① DNEL type ② Exposure route
Naphtha (petroleum), hydrotreated light CAS No.: 64742-49-0 EC No.: 265-151-9	837.5 mg/m ³	① DNEL worker ② Long-term - inhalation, local effects
Naphtha (petroleum), hydrotreated light CAS No.: 64742-49-0 EC No.: 265-151-9	178.57 mg/m ³	① DNEL Consumer ② Long-term - inhalation, local effects
Naphtha (petroleum), hydrotreated light CAS No.: 64742-49-0 EC No.: 265-151-9	1,066.67 mg/m ³	① DNEL worker ② Acute - inhalation, local effects
Naphtha (petroleum), hydrotreated light CAS No.: 64742-49-0 EC No.: 265-151-9	640 mg/m ³	① DNEL Consumer ② Acute - inhalation, local effects
Naphtha (petroleum), hydrotreated light CAS No.: 64742-49-0 EC No.: 265-151-9	25.9 mg/kg bw/day	① DNEL worker ② Long-term - dermal, systemic effects
Naphtha (petroleum), hydrotreated light CAS No.: 64742-49-0 EC No.: 265-151-9	149 mg/kg bw/day	① DNEL Consumer ② Long-term - dermal, systemic effects
Naphtha (petroleum), hydrotreated light CAS No.: 64742-49-0 EC No.: 265-151-9	149 mg/kg bw/day	① DNEL Consumer ② Long-term - oral, systemic effects
calcium dihydroxide CAS No.: 1305-62-0 EC No.: 215-137-3	1 mg/m ³	① DNEL worker ② Long-term - inhalation, systemic effects
calcium dihydroxide CAS No.: 1305-62-0 EC No.: 215-137-3	4 mg/m ³	① DNEL worker ② Acute - inhalation, systemic effects
calcium dihydroxide CAS No.: 1305-62-0 EC No.: 215-137-3	1 mg/m ³	① DNEL worker ② Long-term - inhalation, local effects
calcium dihydroxide CAS No.: 1305-62-0 EC No.: 215-137-3	1 mg/m ³	① DNEL Consumer ② Long-term - inhalation, local effects
calcium dihydroxide CAS No.: 1305-62-0 EC No.: 215-137-3	4 mg/m ³	① DNEL worker ② Acute - inhalation, local effects
calcium dihydroxide CAS No.: 1305-62-0 EC No.: 215-137-3	4 mg/m ³	① DNEL Consumer ② Acute - inhalation, local effects
copper CAS No.: 7440-50-8 EC No.: 231-159-6	20 mg/m ³	① DNEL worker ② Acute - inhalation, systemic effects
copper CAS No.: 7440-50-8 EC No.: 231-159-6	20 mg/m ³	① DNEL Consumer ② Acute - inhalation, systemic effects
copper CAS No.: 7440-50-8 EC No.: 231-159-6	1 mg/m ³	① DNEL Consumer ② Long-term - inhalation, local effects
copper CAS No.: 7440-50-8 EC No.: 231-159-6	1 mg/m ³	① DNEL Consumer ② Acute - inhalation, local effects

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006 (REACH), (EU) 2020/878

Revision date: 7 Jul 2025

Print date: 10 Jul 2025

Version: 5



Page 9/17

Power Lube 400ml

Substance name	DNEL value	① DNEL type ② Exposure route
copper CAS No.: 7440-50-8 EC No.: 231-159-6	137 mg/kg bw/day	① DNEL worker ② Long-term - dermal, systemic effects
copper CAS No.: 7440-50-8 EC No.: 231-159-6	137 mg/kg bw/day	① DNEL Consumer ② Long-term - dermal, systemic effects
copper CAS No.: 7440-50-8 EC No.: 231-159-6	273 mg/kg bw/day	① DNEL worker ② Acute - dermal, systemic effects
copper CAS No.: 7440-50-8 EC No.: 231-159-6	273 mg/kg bw/day	① DNEL Consumer ② Acute - dermal, systemic effects
copper CAS No.: 7440-50-8 EC No.: 231-159-6	0.041 mg/kg bw/day	① DNEL Consumer ② Long-term - oral, systemic effects
zinc oxide CAS No.: 1314-13-2 EC No.: 215-222-5	5 mg/m ³	① DNEL worker ② Long-term - inhalation, systemic effects
zinc oxide CAS No.: 1314-13-2 EC No.: 215-222-5	2.5 mg/m ³	① DNEL Consumer ② Long-term - inhalation, systemic effects
zinc oxide CAS No.: 1314-13-2 EC No.: 215-222-5	0.5 mg/m ³	① DNEL worker ② Long-term - inhalation, local effects
zinc oxide CAS No.: 1314-13-2 EC No.: 215-222-5	83 mg/kg bw/day	① DNEL worker ② Long-term - dermal, systemic effects
zinc oxide CAS No.: 1314-13-2 EC No.: 215-222-5	83 mg/kg bw/day	① DNEL Consumer ② Long-term - dermal, systemic effects
zinc oxide CAS No.: 1314-13-2 EC No.: 215-222-5	0.83 mg/kg bw/day	① DNEL Consumer ② Long-term - oral, systemic effects

Substance name	PNEC Value	① PNEC type
zinc oxide CAS No.: 1314-13-2 EC No.: 215-222-5	6.1 mg/L	① PNEC aquatic, marine water
zinc oxide CAS No.: 1314-13-2 EC No.: 215-222-5	52 mg/L	① PNEC sewage treatment plant
zinc oxide CAS No.: 1314-13-2 EC No.: 215-222-5	117 mg/L	① PNEC sediment, freshwater
zinc oxide CAS No.: 1314-13-2 EC No.: 215-222-5	56.5 mg/L	① PNEC sediment, marine water
zinc oxide CAS No.: 1314-13-2 EC No.: 215-222-5	35.6 mg/kg	① PNEC soil

8.2. Exposure controls

8.2.1. Appropriate engineering controls

Ensure good ventilation/extraction at the workplace. If the work generates dust, fumes, gas, vapours or mists, use process chambers, local exhaust ventilation systems or other technical devices to keep worker exposure below recommended or legally required limits. The technical equipment must also keep the gas, vapour or dust concentrations below any lower explosion limits. Use explosion-proof ventilation equipment.

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006 (REACH), (EU) 2020/878

Revision date: 7 Jul 2025

Print date: 10 Jul 2025

Version: 5

Page 10/17



Power Lube 400ml

8.2.2. Personal protection equipment

Eye/face protection:

If the risk assessment so requires, protective goggles complying with a recognised standard should be worn to prevent exposure to liquid splashes, mists, gases or dusts. If contact is possible then the following protective equipment must be worn unless the assessment requires a higher level of protection: chemical splash goggles and/or face shield. In the case of inhalation hazards, a full face respirator may be required instead.

Skin protection:

Hand protection:

When handling chemical products, chemical-resistant, impervious gloves complying with a recognised standard must always be worn if a risk assessment so requires. Taking into account the parameters specified by the glove manufacturer, it must be checked during use that the gloves still ensure their protective properties. It should be noted that the breakthrough time for glove material may vary for different glove manufacturers. Recommended : 1-4 hours (penetration time): Nitrile rubber ; 4-8 hours (penetration time): Viton®/Butyl rubber

Body protection:

Before handling this product, personal protective equipment should be selected based on the task to be performed and the risks involved, and approved by a specialist. Antistatic protective clothing must be worn if there is a risk of ignition from static electricity. For maximum protection against static discharges, clothing should include antistatic coveralls, boots and gloves. See European Standard DIN EN 1149 for more information on the material and design considerations and test procedures.

Non-slip work footwear

Respiratory protection:

Based on the hazard and risk of exposure, select the respirator that meets the appropriate standards and has the appropriate certifications. Respirators must be used in accordance with the respiratory protection programme to ensure proper fit, adequate training and other important aspects of use. Recommended: Filters against organic vapours (type AX) and particles.

Other protection measures:

General protective and hygienic measures:

The usual precautions when handling chemicals must be observed. Do not eat, drink, smoke or snort while working. Do not inhale dust/fume/mist. Keep away from food, drink and animal feed. Wash hands before breaks and at the end of work.

8.2.3. Environmental exposure controls

Emissions from ventilation and process equipment should be checked to ensure that they meet the requirements of environmental legislation. In some cases, exhaust air scrubbers, filters or engineering changes to process equipment will be required to reduce emissions to acceptable levels.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Appearance

Form: Aerosol

Colour: grey

Odour: Benzene

flammability: No data available

Safety relevant basis data

Parameter	Value	at °C	① Method ② Remark
pH	not applicable		
Initial boiling point and boiling range	No data available		
Flash point	not applicable		
Evaporation rate	No data available		
Upper/lower flammability or explosive limits	0.6 %		
Vapour pressure	350 kPa		
Density	0.72 g/cm ³	20 °C	
Water solubility	not applicable		② Immiscible

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006 (REACH), (EU) 2020/878

Revision date: 7 Jul 2025

Print date: 10 Jul 2025

Version: 5

Page 11/17



Power Lube 400ml

9.2. Other information

No data available

SECTION 10: Stability and reactivity

10.1. Reactivity

No further relevant information available.

10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

Remove all sources of ignition.

10.4. Conditions to avoid

No further relevant information available.

10.5. Incompatible materials

No further relevant information available.

10.6. Hazardous decomposition products

No dangerous decomposition products known.

SECTION 11: Toxicological information

11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

calcium dihydroxide	CAS No.: 1305-62-0	EC No.: 215-137-3
LD₅₀ oral: 7,340 mg/kg (Ratte)		
copper	CAS No.: 7440-50-8	EC No.: 231-159-6
LD₅₀ oral: >2,000 mg/kg (Rat)		
LD₅₀ dermal: 300 – 2,500 mg/kg (Rat)		
LC₅₀ Acute inhalation toxicity (gas): 5.11 ppmV 4 h (Rat)		
LC₅₀ Acute inhalation toxicity (dust/mist): 5.11 mg/L (Rat)		
zinc oxide	CAS No.: 1314-13-2	EC No.: 215-222-5
LD₅₀ oral: >5,000 mg/kg (Rat)		
LD₅₀ dermal: >2,000 mg/kg (Rat)		
LC₅₀ Acute inhalation toxicity (gas): >5,700 ppmV 4 h (Rat)		
propane	CAS No.: 74-98-6	EC No.: 200-827-9
LD₅₀ oral: 5,840 mg/kg (Rat)		
LD₅₀ dermal: 13,900 mg/kg (Rabbit)		
LC₅₀ Acute inhalation toxicity (gas): >25 ppmV 4 h (Rat)		
LC₅₀ Acute inhalation toxicity (vapour): ≥50 mg/L 4 h (Rat)		
butane	CAS No.: 106-97-8	EC No.: 203-448-7
LD₅₀ oral: ≥5,000 mg/kg (Rat)		
LD₅₀ dermal: ≥5,000 mg/kg (Rabbit)		
LC₅₀ Acute inhalation toxicity (gas): 658 ppmV 4 h (Rat)		
LC₅₀ Acute inhalation toxicity (vapour): ≥50 mg/L 4 h (Rat)		

Acute oral toxicity:

ATE (oral): 42380.95 mg/kg

Acute dermal toxicity:

Based on available data, the classification criteria are not met.

Acute inhalation toxicity:

Based on available data, the classification criteria are not met.

Skin corrosion/irritation:

Based on available data, the classification criteria are not met.

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006 (REACH), (EU) 2020/878

Revision date: 7 Jul 2025

Print date: 10 Jul 2025

Version: 5

Page 12/17



Power Lube 400ml

Serious eye damage/irritation:

Causes serious eye damage.

Respiratory or skin sensitisation:

Based on available data, the classification criteria are not met.

Germ cell mutagenicity:

Based on available data, the classification criteria are not met.

Carcinogenicity:

Based on available data, the classification criteria are not met.

Reproductive toxicity:

Based on available data, the classification criteria are not met.

STOT-single exposure:

Irritation to respiratory tract, Narcotic effects

STOT-repeated exposure:

Based on available data, the classification criteria are not met.

Aspiration hazard:

Naphta (Erdöl), mit Wasserstoff behandelt, leicht

Additional information:

No data available

11.2. Information on other hazards

No data available

SECTION 12: Ecological information

* 12.1. Toxicity

calcium dihydroxide	CAS No.: 1305-62-0	EC No.: 215-137-3
LC ₅₀ : 33.8844 mg/L 4 d (fish, Clarias gariepinus)		
copper	CAS No.: 7440-50-8	EC No.: 231-159-6
LC ₅₀ : 0.000072 mg/L 2 d (crustaceans, Krustazeen)		
LC ₅₀ : 0.000072 mg/L 2 d (crustaceans, Krustazeen, Adultus)		
LC ₅₀ : 0.000072 mg/L 2 d (crustaceans, Amphipoda)		
EC ₅₀ : 0.0021 mg/L 2 d (crustaceans, Daphnia)		
NOEC: 0.0008 mg/L (fish, Oreochromis niloticus)		
NOEC: 0.0008 mg/L (crustaceans, Krustazeen)		
IC ₅₀ : 0.016 mg/L 3 d (Algae/water plant, Chlorella pyrenoidosa)		
IC ₅₀ : 0.016 mg/L 3 d (Algae/water plant, Chlorella pyrenoidosa)		
zinc oxide	CAS No.: 1314-13-2	EC No.: 215-222-5
LC ₅₀ : 1.1 - 2.5 mg/L 4 d (fish, Oncorhynchus mykiss)		
IC ₅₀ : 1.85 mg/L 4 d (Algae/water plant, Skeletonema costatum)		
LC ₅₀ : 3.31 - 8.062 mg/L 4 d (fish, Brachydanio rerio)		
LC ₅₀ : >320 mg/L 4 d (fish, Lepomis macrochirus)		
EC ₅₀ : 1 mg/L 2 d (crustaceans, Daphnia magna) OECD 202		
EC ₅₀ : 0.412 - 0.83 mg/L 2 d (crustaceans, Ceriodaphnia spec.) U.S. EPA ECOTOX Database		

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006 (REACH), (EU) 2020/878

Revision date: 7 Jul 2025

Print date: 10 Jul 2025

Version: 5



Page 13/17

Power Lube 400ml

propane CAS No.: 74-98-6 EC No.: 200-827-9
LC₅₀ : 9,640 mg/L 4 d (fish, Pimephales promelas)
LC₅₀ : 0.41 mg/L 4 d (fish, Oncorhynchus mykiss)
LC₅₀ : 49.9 mg/L 4 d (fish)
EC₅₀ : >100 mg/L (Algae/water plant, Bacteria)
EC₅₀ : 0.17 mg/L 3 d (Algae/water plant, Selenastrum capricornutum)
EC₅₀ : 69.43 mg/L 2 d (crustaceans, Daphnia) Calculation with the ECOSAR programme v1.00.
NOEC : 0.017 mg/L 3 d (Algae/water plant, Pseudokirchneriella subcapitata)
ErC₅₀ : 19.37 mg/L 4 d (Algae/water plant, Algae) Calculation with the ECOSAR programme v1.00.
LOEC : 1,000 mg/L (Algae/water plant, Algae)
LOEC : 1,000 mg/L (Algae/water plant, Alge)
IC₅₀ : 11.3 mg/L 3 d (Algae/water plant)
butane CAS No.: 106-97-8 EC No.: 203-448-7
LC₅₀ : 49.9 mg/L 4 d (fish)
EC₅₀ : 69.43 mg/L 2 d (crustaceans, Daphnia sp.) Calculation with the ECOSAR programme v1.00.
ErC₅₀ : 19.37 mg/L 4 d (Algae/water plant, Algae) Calculation using ECOSAR Program v1.00

12.2. Persistence and degradability

propane CAS No.: 74-98-6 EC No.: 200-827-9
Biodegradation : Yes, rapidly
butane CAS No.: 106-97-8 EC No.: 203-448-7
Biodegradation : Yes, rapidly

Additional information:

No further relevant information available.

12.3. Bioaccumulative potential

zinc oxide CAS No.: 1314-13-2 EC No.: 215-222-5
Log K_{OW} : 2.2
Bioconcentration factor (BCF) : 28,960
propane CAS No.: 74-98-6 EC No.: 200-827-9
Log K_{OW} : 1.09
butane CAS No.: 106-97-8 EC No.: 203-448-7
Log K_{OW} : 1.09

12.4. Mobility in soil

No further relevant information available.

12.5. Results of PBT and vPvB assessment

calcium dihydroxide CAS No.: 1305-62-0 EC No.: 215-137-3
Results of PBT and vPvB assessment : —
copper CAS No.: 7440-50-8 EC No.: 231-159-6
Results of PBT and vPvB assessment : —
Aluminium powder CAS No.: 7429-90-5 EC No.: 231-072-3
Results of PBT and vPvB assessment : —
zinc oxide CAS No.: 1314-13-2 EC No.: 215-222-5
Results of PBT and vPvB assessment : —
Benzenesulfonic acid, di-C10-18-alkyl derivs., calcium salts CAS No.: 93820-57-6 EC No.: 298-637-4
Results of PBT and vPvB assessment : —
propane CAS No.: 74-98-6 EC No.: 200-827-9
Results of PBT and vPvB assessment : —
butane CAS No.: 106-97-8 EC No.: 203-448-7
Results of PBT and vPvB assessment : —

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006 (REACH), (EU) 2020/878

Revision date: 7 Jul 2025

Print date: 10 Jul 2025

Version: 5

Page 14/17



Power Lube 400ml

Naphtha (petroleum), hydrotreated light CAS No.: 64742-49-0 EC No.: 265-151-9

Results of PBT and vPvB assessment: —

This mixture does not contain substances classified as PBT or vPvB substances.

12.6. Endocrine disrupting properties

No further relevant information available.

12.7. Other adverse effects

None known

SECTION 13: Disposal considerations

13.1. Waste treatment methods

13.1.1. Product/Packaging disposal

Waste codes/waste designations according to EWC/AVV

Waste code product

16 05 04 *	Gases in pressure containers (including halons) containing hazardous substances
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*: Evidence for disposal must be provided.

Waste code packaging

15 01 04	metallic packaging
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Waste treatment options

Appropriate disposal / Product:

Waste generation should be avoided or minimised wherever possible. Disposal of this product and its solutions and by-products must at all times be carried out in compliance with environmental protection requirements and waste disposal legislation and the requirements of local authorities. be carried out. Dispose of surpluses and products not suitable for recycling via a recognised waste disposal company. Do not discharge waste untreated into the sewerage system unless all applicable regulations of the authorities are complied with.





Appropriate disposal / Package:

Waste generation should be avoided or minimised where possible. Packaging waste should be recycled. Incineration or landfilling should only be considered if recycling is not feasible.

Other disposal recommendations:

Waste and containers must be disposed of in a safe manner. Take care when handling empty containers that have not been cleaned or rinsed out. Empty dispersal and run-off of released material and contact with soil, water bodies, drains and sewers.

SECTION 14: Transport information

Land transport (ADR/RID)	Inland waterway craft (ADN)	Sea transport (IMDG)	Air transport (ICAO-TI / IATA-DGR)
14.1. UN number or ID number			
UN 1950	UN 1950	UN 1950	UN 1950
14.2. UN proper shipping name			
AEROSOLS	AEROSOLS	AEROSOLS	AEROSOLS, FLAMMABLE
14.3. Transport hazard class(es)			
 2.1	 2.1	 2.1	 2.1
14.4. Packing group			
		-	
14.5. Environmental hazards			
No	No	No	No

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006 (REACH), (EU) 2020/878

Revision date: 7 Jul 2025

Print date: 10 Jul 2025

Version: 5

Page 15/17



Power Lube 400ml

Land transport (ADR/RID)	Inland waterway craft (ADN)	Sea transport (IMDG)	Air transport (ICAO-TI / IATA-DGR)
14.6. Special precautions for user			
Special Provisions: 190 327 344 625 Limited quantity (LQ): 1 L Excepted Quantities (EQ): E0 Classification code: 5F Tunnel restriction code: (D) Remark: Transport on the factory premises: only transport in closed containers that are upright and firm. Persons transporting the product must be instructed in the correct behaviour in case of accidents, leakage or spillage.	Special Provisions: 190 327 344 625 Limited quantity (LQ): 1 L Excepted Quantities (EQ): E0 Classification code: 5F Remark: Transport on the factory premises: only transport in closed containers that are upright and firm. Persons transporting the product must be instructed in the correct behaviour in case of accidents, leakage or spillage.	Special Provisions: 63 190 277 327 344 381 959 Limited quantity (LQ): Siehe SV277 Excepted Quantities (EQ): E0 EmS-No.: F-D, S-U Remark: Transport on the factory premises: only transport in closed containers that are upright and firm. Persons transporting the product must be instructed in the correct behaviour in case of accidents, leakage or spillage.	Special Provisions: A145 A167 A802 Limited quantity (LQ): Y203 Excepted Quantities (EQ): E0 Remark: Quantity limit: Passenger and Cargo Aircraft: 75 kg. Packing Instructions: 203. Cargo Aircraft Only: 150 kg. Packing Instructions: 203. Limited Quantities - Passenger Aircraft: 30 kg. Packing Instructions: Y203. Transport on the factory premises: only transport in closed containers that are upright and firm. Persons transporting the product must be instructed in the correct behaviour in case of accidents, leakage or spillage.

14.7. Maritime transport in bulk according to IMO instruments

No data available

SECTION 15: Regulatory information

* 15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

15.1.1. EU legislation

Authorisations:

Regulation (EC) No 1907/2006 ANNEX XVII

Annex XIV - List of substances subject to authorisation: None of the ingredients are included.

Ozone depleting substances (1005/2009/EU): Not listed.

Prior Informed Consent (PIC) (649/2012/EU): Not listed.

Restrictions on the production, placing on the market and use of persistent organic pollutants: Not listed.

Other regulations (EU):

Hazard categories:

- P3a 'Flammable' aerosols Category 1 or 2, containing flammable gases Category 1 or 2 or flammable liquids

Named dangerous substances:

- Liquefied flammable gases, Category 1 or 2 (including liquefied petroleum gas) and natural gas

15.1.2. National regulations

No data available

15.2. Chemical Safety Assessment

No data available

SECTION 16: Other information

* 16.1. Indication of changes

1.3.	Details of the supplier of the safety data sheet
8.1.	Control parameters

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006 (REACH), (EU) 2020/878

Revision date: 7 Jul 2025

Print date: 10 Jul 2025

Version: 5



Page 16/17

Power Lube 400ml

12.1.	Toxicity
15.1.	Safety, health and environmental regulations/legislation specific for the substance or mixture
16.1.	Indication of changes

16.2. Abbreviations and acronyms

ACGIH	American Conference of Governmental Industrial Hygienists
ADN	European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways
ADR	European Agreement concerning the International Carriage of Dangerous Goods by Road
BCF	Bioconcentration Factor
CAS	Chemical Abstracts Service
CLP	Classification, Labelling and Packaging
DIN	German Institute for Standardization / German Industrial Standard
DNEL	derived no-effect level
EC ₅₀	Effective Concentration 50%
EN	European Standard
ES	Exposure scenario
EWC	European Waste Catalogue
IC ₅₀	Inhibition Concentration 50 %
ICAO	International Civil Aviation Organization
IMDG	International Maritime Dangerous Goods
IMO	International Maritime Organization
ISO	International Standards Organisation
KG	body weight
LC ₅₀	Lethal (fatal) Concentration 50%
LD ₅₀	Lethal (fatal) Dose 50%
MAK	Maximum concentration in the workplace air (CH)
NFPA	National Fire Protection Association
NIOSH	National Institute for Occupational Safety & Health
NOEC	No Observed Effect Concentration
OECD	Organisation for Economic Cooperation and Development
OSHA	Occupational Safety & Health Administration
PBT	persistent and bioaccumulative and toxic
PNEC	Predicted No Effect Concentration
REACH	Registration, Evaluation and Authorization of Chemicals
RID	Dangerous goods regulations for transport by rail
TRGS	Technische Regeln für Gefahrstoffe
UN	United Nations

16.3. Key literature references and sources for data

No data available

16.4. Classification for mixtures and used evaluation method according to regulation (EC) No 1272/2008 [CLP]

Hazard classes and hazard categories	Hazard statements	Classification procedure
aerosol dispensers and lighters (Aerosol 1)	H222; H229: Extremely flammable aerosol. Pressurised container: May burst if heated.	
Skin corrosion/irritation (Skin Irrit. 2)	H315: Causes skin irritation.	
Serious eye damage/eye irritation (Eye Irrit. 2)	H319: Causes serious eye irritation.	
Hazardous to the aquatic environment (Aquatic Chronic 3)	H412: Harmful to aquatic life with long lasting effects.	

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006 (REACH), (EU) 2020/878

Revision date: 7 Jul 2025

Print date: 10 Jul 2025

Version: 5



Page 17/17

Power Lube 400ml

16.5. List of relevant hazard statements and/or precautionary statements from sections 2 to 15

Hazard statements	
H220	Extremely flammable gas.
H225	Highly flammable liquid and vapour.
H228	Flammable solid.
H261	In contact with water releases flammable gases.
H280	Contains gas under pressure; may explode if heated.
H302	Harmful if swallowed.
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.
H335	May cause respiratory 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.

16.6. Training advice

No data available

16.7. Additional information

To the best of our knowledge, the information contained herein is accurate. However, neither the above-mentioned supplier nor its subsidiaries assume any liability with regard to the correctness or completeness of the information provided. A final determination of the suitability of individual materials is the sole responsibility of the user. All materials may involve unknown risks and should be used with caution. While certain risks are described herein, we cannot guarantee that these are the only possible risks.

* Data changed compared with the previous version.