

SAFETY DATA SHEET

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

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Version: 3

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Power Lube 500g

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

1.1. Product identifier

Trade name/designation:

Power Lube 500g

Article No.:

T221302

UFI:

M1VP-1C0Y-0K0W-MH4D

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
Serious eye damage/eye irritation (Eye Dam. 1)	H318: Causes serious eye damage.	
Hazardous to the aquatic environment (Aquatic Acute 1)	H400: Very toxic to aquatic life.	
Hazardous to the aquatic environment (Aquatic Chronic 2)	H411: Toxic to aquatic life with long lasting effects.	

2.2. Label elements

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

Hazard pictograms:



GHS05
Corrosion



GHS09
Environment

Signal word: Danger

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Hazard components for labelling:

calcium dihydroxide

Hazard statements for health hazards

H318	Causes serious eye damage.
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Hazard statements for environmental hazards

H410	Very toxic 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

P273	Avoid release to the environment.
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P280	Wear protective gloves/protective clothing/eye protection/face protection/hearing protection.
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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.
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P310	Immediately call a POISON CENTER.
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P391	Collect spillage.
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Precautionary statements Disposal

P501	Dispose of contents/container to an appropriate recycling or disposal facility.
------	---

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.

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.: 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	5 - < 10 %
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 - < 6 %
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	3 - ≤ 5 %

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Product identifiers	Substance name Classification according to Regulation (EC) No 1272/2008 [CLP]	Concentration
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	1 - ≤ 3 %
CAS No.: 93820-57-6 EC No.: 298-637-4	Benzenesulfonic acid, di-C10-18-alkyl derivs., calcium salts Skin Sens. 1 (H317) Warning	0 - < 1 %

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

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: No further relevant information available.

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.

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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

Closed containers may burst when pressure and temperature rise. Toxic to aquatic life. Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water.

Hazardous combustion products:

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.

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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.

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.

Storage class (TRGS 510, Germany): 10 – Combustible liquids that cannot be assigned to any of the above storage classes

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)	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)
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)

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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) 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 (eintembare 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
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

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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

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.

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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.

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: Paste

Colour: grey

Odour: characteristic

flammability: No data available

Safety relevant basis data

Parameter	Value	at °C	① Method ② Remark
pH	No data available		
Melting point	No data available		
Freezing point	No data available		
Initial boiling point and boiling range	No data available		
Flash point	170 °C		
Evaporation rate	No data available		
Auto-ignition temperature	No data available		
Upper/lower flammability or explosive limits	No data available		
Vapour pressure	No data available		
Vapour density	No data available		
Density	1.2 g/cm ³	20 °C	

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Parameter	Value	at °C	① Method ② Remark
Bulk density	<i>not applicable</i>		
Water solubility	<i>not applicable</i>		② Immiscible
Dynamic viscosity	<i>No data available</i>		
Kinematic viscosity	<i>No data available</i>		

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

No hazardous reaction when handled and stored according to provisions.

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 known hazardous decomposition products.

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)

Acute oral toxicity:

ATE (oral): 13333.33 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.

Serious eye damage/irritation:

Causes serious eye damage.

Respiratory or skin sensitisation:

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

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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

STOT-repeated exposure:

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

Aspiration hazard:

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

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
LC₅₀: 33.8844 mg/L 4 d (fish, <i>Clarias gariepinus</i>)		
copper	CAS No.: 7440-50-8	EC No.: 231-159-6
LC₅₀: 0.000072 mg/L 2 d (crustaceans, Krustazeen)		
LC₅₀: 0.000072 mg/L 2 d (crustaceans, Krustazeen, Adultus)		
LC₅₀: 0.000072 mg/L 2 d (crustaceans, Amphipoda)		
EC₅₀: 0.0021 mg/L 2 d (crustaceans, Daphnia)		
NOEC: 0.0008 mg/L (fish, <i>Oreochromis niloticus</i>)		
NOEC: 0.0008 mg/L (crustaceans, Krustazeen)		
IC₅₀: 0.016 mg/L 3 d (Algae/water plant, <i>Chlorella pyrenoidosa</i>)		
IC₅₀: 0.016 mg/L 3 d (Algae/water plant, <i>Chlorella pyrenoidosa</i>)		
zinc oxide	CAS No.: 1314-13-2	EC No.: 215-222-5
LC₅₀: 1.1 – 2.5 mg/L 4 d (fish, <i>Oncorhynchus mykiss</i>)		
IC₅₀: 1.85 mg/L 4 d (Algae/water plant, <i>Skeletonema costatum</i>)		
LC₅₀: 3.31 – 8.062 mg/L 4 d (fish, <i>Brachydanio rerio</i>)		
LC₅₀: >320 mg/L 4 d (fish, <i>Lepomis macrochirus</i>)		
EC₅₀: 1 mg/L 2 d (crustaceans, <i>Daphnia magna</i>) OECD 202		
EC₅₀: 0.412 – 0.83 mg/L 2 d (crustaceans, <i>Ceriodaphnia spec.</i>) U.S. EPA ECOTOX Database		

Aquatic toxicity:

Very toxic to aquatic life. Very toxic to aquatic life with long lasting effects.

12.2. Persistence and degradability

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		

12.4. Mobility in soil

No further relevant information available.

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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: —		
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: —		

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

12 01 12 *	spent waxes and fats
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*: Evidence for disposal must be provided.

Waste code packaging

15 01 02	Plastic 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 3077	UN 3077	UN 3077	UN 3077
14.2. UN proper shipping name			
ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (copper, zinc oxide)	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (copper, zinc oxide)	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (copper, zinc oxide)	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (copper, zinc oxide)

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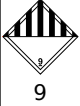
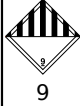
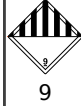
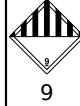




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Land transport (ADR/RID)	Inland waterway craft (ADN)	Sea transport (IMDG)	Air transport (ICAO-TI / IATA-DGR)
14.3. Transport hazard class(es)			
			
14.4. Packing group			
III	III	III	III
14.5. Environmental hazards			
		 MARINE POLLUTANT	
14.6. Special precautions for user			
Special Provisions: 274 335 375 601 Limited quantity (LQ): 5 kg Excepted Quantities (EQ): E1 Hazard identification number (Kemler No.): 90 Classification code: M7 Tunnel restriction code: (-) Remark: When transported in sizes ≤ 5 l or ≤ 5 kg, this product is not regulated as dangerous goods provided that the packagings comply with the general provisions of 4.1.1.1, 4.1.1.2 and 4.1.1.4 to 4.1.1.8. 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: 274 335 375 601 Limited quantity (LQ): 5 kg Excepted Quantities (EQ): E1 Classification code: M7 Remark: When transported in sizes ≤ 5 l or ≤ 5 kg, this product is not regulated as dangerous goods provided that the packagings comply with the general provisions of 4.1.1.1, 4.1.1.2 and 4.1.1.4 to 4.1.1.8. 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: 274 335 966 967 969 Limited quantity (LQ): 5 kg Excepted Quantities (EQ): E1 EmS-No.: F-A, S-F Remark: When transported in sizes ≤ 5 l or ≤ 5 kg, this product is not regulated as dangerous goods provided that the packagings comply with the general provisions of 4.1.1.1, 4.1.1.2 and 4.1.1.4 to 4.1.1.8. 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: A97 A158 A179 A197 A215 Limited quantity (LQ): Y956 Excepted Quantities (EQ): E1 Remark: When transported in sizes ≤ 5 l or ≤ 5 kg, this product is not regulated as dangerous goods provided that the packagings comply with the general provisions of 5.0.2.4.1, 5.0.2.6.1.1 and 5.0.2.8. Passenger and Cargo Aircraft: 400 kg. Packing Instructions: 956. Cargo Aircraft Only: 400 kg. Packing Instructions: 956. Limited Quantities - Passenger Aircraft: 30 kg. 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.

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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:

- E1 Hazardous to the Aquatic Environment in Category Acute 1 or Chronic 1
- E2 Hazardous to the Aquatic Environment in Category Chronic 2

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

8.1.	Control parameters
16.1.	Indication of changes
16.2.	Abbreviations and acronyms

* 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

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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
Serious eye damage/eye irritation (<i>Eye Dam. 1</i>)	H318: Causes serious eye damage.	
Hazardous to the aquatic environment (<i>Aquatic Acute 1</i>)	H400: Very toxic to aquatic life.	
Hazardous to the aquatic environment (<i>Aquatic Chronic 2</i>)	H411: Toxic to aquatic life with long lasting effects.	

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

Hazard statements	
H228	Flammable solid.
H261	In contact with water releases flammable gases.
H302	Harmful if swallowed.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H335	May cause respiratory irritation.
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.