



# Safety Data Sheet

according to Regulation (EC) No 1907/2006

## Wärmeleitpaste

Revision date: 21.05.2021

Product code: 31955

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

#### 1.1. Product identifier

Wärmeleitpaste

##### Further trade names

900021428 Lampe komplett  
900031955 Wärmeleitpaste silikonfrei  
900034287 Netz-Leiterplatte 230V  
900034288 Netz-Leiterplatte 120V  
900034311 Netz-Leiterplatte 100V  
900036565 Netzplatine SV4 230V

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

##### Use of the substance/mixture

Thermoconducting paste

##### Uses advised against

No information available.

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

Company name: Renfert GmbH  
Street: Untere Giesswiesen 2  
Place: D-78247 Hilzingen  
Telephone: +49 7731 8208-0  
e-mail: info@renfert.com  
Internet: www.renfert.com

Telefax: +49 7731 8208-70

### SECTION 2: Hazards identification

#### 2.1. Classification of the substance or mixture

##### Regulation (EC) No. 1272/2008

Hazard categories:

Hazardous to the aquatic environment: Aquatic Acute 1  
Hazardous to the aquatic environment: Aquatic Chronic 1

Hazard Statements:

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

#### 2.2. Label elements

##### Regulation (EC) No. 1272/2008

Signal word: Warning

Pictograms:



##### Hazard statements

H410 Very toxic to aquatic life with long lasting effects.

##### Precautionary statements

P273 Avoid release to the environment.  
P391 Collect spillage.

#### 2.3. Other hazards

The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII.

### SECTION 3: Composition/information on ingredients

#### 3.2. Mixtures

##### Chemical characterization

Thermoconducting paste



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### Hazardous components

CAS No	Chemical name	Quantity		
	EC No	Index No	REACH No	
	GHS Classification			
1314-13-2	zinc oxide			> 50 - < 75 %
	215-222-5	030-013-00-7		
	Aquatic Acute 1, Aquatic Chronic 1; H400 H410			

Full text of H and EUH statements: see section 16.

### Specific Conc. Limits, M-factors and ATE

CAS No	EC No	Chemical name	Quantity	
	Specific Conc. Limits, M-factors and ATE			
1314-13-2	215-222-5	zinc oxide	> 50 - < 75 %	
	oral: LD50 = > 5000 mg/kg			

## SECTION 4: First aid measures

### 4.1. Description of first aid measures

#### General information

Remove contaminated, saturated clothing immediately.

#### After inhalation

Provide fresh air.

#### After contact with skin

After contact with skin, wash immediately with plenty of water and soap.

#### After contact with eyes

In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

If eye irritation persists: Get medical advice/attention.

#### After ingestion

Rinse mouth immediately and drink plenty of water.

When in doubt or if symptoms are observed, get medical advice.

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

No known symptoms to date.

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

Treat symptomatically.

## SECTION 5: Firefighting measures

### 5.1. Extinguishing media

#### Suitable extinguishing media

Water mist, Carbon dioxide (CO<sub>2</sub>), Extinguishing powder, Foam

### 5.2. Special hazards arising from the substance or mixture

Hazardous combustion products:

Carbon monoxide, Carbon dioxide (CO<sub>2</sub>)

### 5.3. Advice for firefighters

No special fire protection measures are necessary.

## SECTION 6: Accidental release measures

### 6.1. Personal precautions, protective equipment and emergency procedures

#### General measures

Use personal protection equipment.

### 6.2. Environmental precautions

Do not allow to enter into surface water or drains.

### 6.3. Methods and material for containment and cleaning up

#### Other information

Take up mechanically. Treat the recovered material as prescribed in the section on waste disposal.

### 6.4. Reference to other sections

Safe handling: see section 7

Personal protection equipment: see section 8

Disposal: see section 13

## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

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**Advice on safe handling**

Avoid contact with eyes and skin.  
When using do not eat, drink or smoke.

**Advice on protection against fire and explosion**

No special fire protection measures are necessary.

**7.2. Conditions for safe storage, including any incompatibilities****Requirements for storage rooms and vessels**

No special measures are necessary.

**Hints on joint storage**

No special measures are necessary.

**7.3. Specific end use(s)**

Please refer to our internet website for more information: [www.renfert.com](http://www.renfert.com)

**SECTION 8: Exposure controls/personal protection****8.1. Control parameters****Additional advice on limit values**

To date, no national critical limit values exist.

**8.2. Exposure controls****Appropriate engineering controls**

See section 7. No additional measures necessary.

**Protective and hygiene measures**

Avoid contact with skin, eyes and clothes.  
Wash hands before breaks and after work.  
Keep away from food, drink and animal feedingstuffs.

**Eye/face protection**

Wear eye/face protection.

**Hand protection**

Disposable gloves

When handling with chemical substances, protective gloves must be worn with the CE-label including the four control digits. (EN ISO 374)

The quality of the protective gloves resistant to chemicals must be chosen as a function of the specific working place concentration and quantity of hazardous substances.

**Respiratory protection**

Usually no personal respirative protection necessary.

**Environmental exposure controls**

Do not allow to enter into surface water or drains.

**SECTION 9: Physical and chemical properties****9.1. Information on basic physical and chemical properties**

Physical state:	Paste	
Colour:	white	
Odour:	odourless	
Odour threshold:	not determined	
pH-Value:		not applicable

**Changes in the physical state**

Melting point:	not determined
Boiling point or initial boiling point and boiling range:	not determined
Flash point:	ca. 200 °C

**Flammability**

Solid/liquid:	not determined
Gas:	not applicable

**Explosive properties**

not explosive.

Lower explosion limits:	not determined
Upper explosion limits:	not determined
Auto-ignition temperature:	not determined
Decomposition temperature:	not determined

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**Oxidizing properties**

Not oxidising.

Vapour pressure:

not determined

Density (at 20 °C):

ca. 2 g/cm<sup>3</sup>

Bulk density:

not applicable

Water solubility:

practically insoluble

**Solubility in other solvents**

not determined

Partition coefficient n-octanol/water:

not determined

Viscosity / dynamic:

not determined

Viscosity / kinematic:

not determined

Relative vapour density:

not determined

Evaporation rate:

not applicable

**9.2. Other information**

No data available

**SECTION 10: Stability and reactivity****10.1. Reactivity**

No hazardous reaction when handled and stored according to provisions.

**10.2. Chemical stability**

The mixture is chemically stable under recommended conditions of storage, use and temperature.

**10.3. Possibility of hazardous reactions**

No known hazardous reactions.

**10.4. Conditions to avoid**

No special measures are necessary.

**10.5. Incompatible materials**

No 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****Acute toxicity**

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

CAS No	Chemical name				
	Exposure route	Dose	Species	Source	Method
1314-13-2	zinc oxide				
	oral	LD50 > 5000 mg/kg	Rat	IUCLID	

**Irritation and corrosivity**

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

**Sensitising effects**

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

**Carcinogenic/mutagenic/toxic effects for reproduction**

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

**STOT-single exposure**

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

**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.

**11.2. Information on other hazards****Endocrine disrupting properties**

No information available.

**Further information**

The product has not been tested. The statement is derived from the properties of the single components.

**SECTION 12: Ecological information**



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### 12.1. Toxicity

There are no data available on the mixture itself.

### 12.2. Persistence and degradability

There are no data available on the mixture itself.

### 12.3. Bioaccumulative potential

There are no data available on the mixture itself.

### 12.4. Mobility in soil

No information available.

### 12.5. Results of PBT and vPvB assessment

The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII.

### 12.6. Endocrine disrupting properties

No information available.

### 12.7. Other adverse effects

No information available.

### Further information

The product has not been tested. The statement is derived from the properties of the single components. Do not allow uncontrolled discharge of product into the environment.

## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

#### Disposal recommendations

Dispose of waste according to applicable legislation.

The allocation of waste identity numbers/waste descriptions must be carried out according to the EEC, specific to the industry and process.

#### Contaminated packaging

Handle contaminated packages in the same way as the substance itself.

## SECTION 14: Transport information

### Land transport (ADR/RID)

<u>14.1. UN number:</u>	UN 3077
<u>14.2. UN proper shipping name:</u>	UMWELTGEFÄHRDENDER STOFF, FEST, N.A.G. (Zinkoxid)
<u>14.3. Transport hazard class(es):</u>	9
<u>14.4. Packing group:</u>	III

### Marine transport (IMDG)

<u>14.1. UN number:</u>	UN 3077
<u>14.2. UN proper shipping name:</u>	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (zinc oxide)
<u>14.3. Transport hazard class(es):</u>	9
<u>14.4. Packing group:</u>	III

### Air transport (ICAO-TI/IATA-DGR)

<u>14.1. UN number:</u>	UN 3077
<u>14.2. UN proper shipping name:</u>	Environmentally hazardous substance, solid, n.o.s. (zinc oxide)
<u>14.3. Transport hazard class(es):</u>	9
<u>14.4. Packing group:</u>	III

### 14.5. Environmental hazards

ENVIRONMENTALLY HAZARDOUS: Yes



Danger releasing substance: zinc oxide

### 14.6. Special precautions for user

Further information: see section 6, 7, 8

### 14.7. Maritime transport in bulk according to IMO instruments

not applicable

## SECTION 15: Regulatory information

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

EU regulatory information

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Restrictions on use (REACH, annex XVII):

Entry 3

2004/42/EC (VOC): not applicable

**National regulatory information**

Employment restrictions: Observe restrictions to employment for juveniles according to the 'juvenile work protection guideline' (94/33/EC). Observe employment restrictions under the Maternity Protection Directive (92/85/EEC) for expectant or nursing mothers.

Water hazard class (D): 2 - obviously hazardous to water

**SECTION 16: Other information****Changes**

Abs. 1, 9, 11, 12, 14, 15, 16 \* Data changed compared with the previous version

**Abbreviations and acronyms**

PBT: Persistent, Bioaccumulative and Toxic

vPvB: very Persistent and very Bioaccumulative

CAS: Chemical Abstracts Service (division of the American Chemical Society)

LD50: lethal dose, 50%

ADR: Accord européen relatif au transport international des marchandises Dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)

RID: Règlement concernant le transport international ferroviaire de marchandises Dangereuses (Regulations Concerning the International Transport of Dangerous Goods by Rail)

IMDG: International Maritime Code for Dangerous Goods

ICAO: International Civil Aviation Organization

MARPOL: International Convention for the Prevention of Marine Pollution from Ships

VOC: volatile organic compound(s)

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

Classification	Classification procedure
Aquatic Acute 1; H400	Calculation method
Aquatic Chronic 1; H410	Calculation method

**Relevant H and EUH statements (number and full text)**

H400 Very toxic to aquatic life.

H410 Very toxic to aquatic life with long lasting effects.

**Further Information**

The above information describes exclusively the safety requirements of the product and is based on our present-day knowledge. The information is intended to give you advice about the safe handling of the product named in this safety data sheet, for storage, processing, transport and disposal. The information cannot be transferred to other products. In the case of mixing the product with other products or in the case of processing, the information on this safety data sheet is not necessarily valid for the new made-up material. Restricted to professional users.

*(The data for the hazardous ingredients were taken respectively from the last version of the sub-contractor's safety data sheet.)*