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

### **1.1 Product identifier**

**Trade name/designation** WLPF

**Unique Formula Identifier** UFI: YEQA-GUC7-WW0W-WFUS

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

#### **Relevant identified uses**

**remark**

thermal transfer compound

#### **Uses advised against**

none

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

#### **Manufacturer**

Fischer Elektronik GmbH & Co. KG

Nottebohmstraße 28

Germany-58511 Lüdenscheid

Telephone: +49-2351-4350

Telefax: +49-2351-45754

E-mail: info@fischerelektronik.de

Information telephone: +49-2351-4350

E-mail (competent person): info@fischerelektronik.de

www.fischerelektronik.de

### **1.4 Emergency telephone number**

+49-228-19240 (English and German, Giftnotruf Bonn)

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## **SECTION 2: Hazards identification**

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

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

#### **Environmental hazards**

Aquatic Acute 1

**hazard statements for environmental hazards**

H400 Very toxic to aquatic life.

#### **Environmental hazards**

Aquatic Chronic 1

**hazard statements for environmental hazards**

H410 Very toxic to aquatic life with long lasting effects.

**remark**

The mixture is classified as hazardous according to regulation (EC) No 1272/2008 [CLP].

### **2.2 Label elements**

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

#### **Hazard pictograms**



GHS09

### **Signal word**

Warning

### **Hazard statements**

#### **Hazard statements for environmental hazards**

H410 Very toxic to aquatic life with long lasting effects.

### **Precautionary statements**

#### **Prevention**

P273 Avoid release to the environment.

#### **Response:**

P391 Collect spillage.

### **2.3 Other hazards**

#### **Adverse human health effects and symptoms**

This product does not contain a substance that has endocrine disrupting properties with respect to humans as no components meets the criteria.

#### **Results of PBT and vPvB assessment**

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

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## **SECTION 3: Composition / information on ingredients**

### **3.1/3.2 Substances/Mixtures**

#### **Hazardous ingredients**

Zinkoxid	>50 - <75 %
CAS 1314-13-2	
EC 215-222-5	
REACHNo 01-2119463881-32	
Aquatic Acute 1, H400 / Aquatic Chronic 1, H410	

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## **SECTION 4: First aid measures**

### **4.1 Description of first aid measures**

#### **General information**

Remove contaminated, saturated clothing immediately.

#### **Following inhalation**

Provide fresh air.

#### **Following skin contact**

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

#### **After eye contact**

Rinse immediately carefully and thoroughly with eye-bath or water. In case of eye irritation consult an ophthalmologist.

#### **Following ingestion**

Rinse mouth immediately and drink plenty of water.

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

### **Symptoms**

No known symptoms to date.

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

No data available

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## **SECTION 5: Firefighting measures**

### **5.1 Extinguishing media**

#### **Suitable extinguishing media**

Foam

Extinguishing powder

Carbon dioxide (CO2)

Water mist

#### **Unsuitable extinguishing media**

not applicable

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

#### **Hazardous combustion products**

Carbon monoxide

Carbon dioxide (CO2)

### **5.3 Advice for firefighters**

No data available

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## **SECTION 6: Accidental release measures**

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

#### **For non-emergency personnel**

#### **Personal precautions**

Use personal protection equipment.

### **6.2 Environmental precautions**

Do not allow to enter into surface water or drains. Do not allow to enter into soil/subsoil.

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

#### **For containment**

#### **Suitable material for taking up:**

Sawdust

Universal binder

### **6.4 Reference to other sections**

Personal protection equipment: see section 8

Disposal: see section 13

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## **SECTION 7: Handling and storage**

### **7.1 Precautions for safe handling**

#### **Advices on general occupational hygiene**

When using do not eat, drink, smoke, sniff. Wash hands before breaks and after work.

## Protective measures

### Advices on safe handling

No special technical protective measures are necessary.

### 7.2 Conditions for safe storage, including any incompatibilities

#### Requirements for storage rooms and vessels

not relevant

#### Hints on joint storage

#### Materials to avoid

none

#### Storage class

Non-combustible solids

### 7.3 Specific end use(s)

#### Recommendation

Observe technical data sheet.

## SECTION 8: Exposure controls/personal protection

### 8.1 Control parameters

#### Occupational exposure limit values

CAS No.	Substance name	LTV	STV	remark
1314-13-2	Zinc oxide, fume or respirable dust	5 mg/m <sup>3</sup>	10 mg/m <sup>3</sup>	Great Britain (UK)

LTV = long-term occupational exposure limit value

STV = short-term occupational exposure limit value

source: GESTIS International Limit Values (<http://limitvalue.ifa.dguv.de/>)

Monitoring and observation processes: GESTIS Analytical Methods (<http://amcaw.ifa.dguv.de/>)

#### DNEL-/PNEC-values

##### DNEL Consumer

**Substance name** Zinkoxid

**type**

DNEL long-term inhalative (systemic)

**Value** 2,5 mg/m<sup>3</sup>

**Substance name** Zinkoxid

**type**

DNEL long-term dermal (systemic)

**Value** 83 mg/kg

**Substance name** Zinkoxid

**type**

DNEL long-term oral (repeated)

**Value** 0,83 mg/kg

##### DNEL worker

**Substance name** Zinkoxid

**type**

DNEL long-term inhalative (systemic)

**Value** 5 mg/kg

**Substance name** Zinkoxid

**type**

DNEL long-term dermal (systemic)

**Value** 83 mg/kg

## 8.2 Exposure controls

### Personal protection equipment

#### Eye/face protection

##### **Suitable eye protection:**

Eye glasses with side protection

#### Skin protection

##### **Suitable gloves type**

Disposable gloves

#### **Body protection:**

##### **Suitable protective clothing:**

not relevant

#### **Respiratory protection**

Respiratory protection necessary at:

dust formation

##### **Suitable respiratory protection apparatus:**

Filtering Half-face mask (DIN EN 149)

ABEK-P1

#### **remark**

Usually no personal respirative protection necessary.

## SECTION 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

#### Appearance

#### Physical state

Paste

#### Colour

white

#### Odour

odourless

#### **Odour threshold:**

not determined

	parameter	Method - source - remark
Melting point/freezing point		not determined
Boiling point or initial boiling point and boiling range		not determined
flammability		not determined
Upper explosion limit		not determined
lower explosion limit		not determined

	parameter	Method - source - remark
Flash point (°C)	ca.200 °C	
Auto-ignition temperature		not determined
Decomposition temperature		not determined
pH		not determined
Kinematic viscosity		not determined
Water solubility		The study does not need to be conducted because the substance is known to be insoluble in water.
Soluble (g/L) in		not determined
Fat solubility		not determined
Partition coefficient: n-octanol/water		not determined
Vapour pressure		not determined
Density and/or relative density	ca.2 g/cm <sup>3</sup>	Temperature 20 °C
Relative vapour density		not determined
particle characteristics		not determined

## 9.2 Other information

No data available

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## SECTION 10: Stability and reactivity

### 10.1 Reactivity

This material is considered to be non-reactive under normal use conditions.

### 10.2 Chemical stability

The substance 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

none

### 10.5 Incompatible materials

none

### 10.6 Hazardous decomposition products

No known hazardous decomposition products.

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## SECTION 11: Toxicological information

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

#### Acute toxicity

#### Acute dermal toxicity

ingredient Zinkoxid

Acute dermal toxicity >2000 mg/kg

**Effective dose**

LD50:

**Species:**

Rat

**Acute inhalation toxicity (dust/mist)**

ingredient Zinkoxid

**Acute inhalation toxicity (dust/mist)** >5,7 mg/kg

**Effective dose**

LC50:

**Exposure time** 4

**Species:**

Rat

**Acute oral toxicity**

ingredient Zinkoxid

**Acute oral toxicity** >15000 mg/kg

**Effective dose**

LD50:

**Species:**

Rat

**11.2 Information on other hazards**

No information available.

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**SECTION 12: Ecological information**

**12.1 Toxicity**

**Aquatic toxicity**

**Acute (short-term) toxicity to algae and cyanobacteria**

ingredient Zinkoxid

**Acute (short-term) toxicity to algae and cyanobacteria** 0,17 mg/L

**Effective dose**

EC50

**Test duration** 72 h

**species**

Selenastrum capricornutum

**12.2 Persistence and degradability**

No information available.

**12.3 Bioaccumulative potential**

No information available.

**12.4 Mobility in soil**

No information available.

**12.5 Results of PBT and vPvB assessment**

This substance does not meet the PBT/vPvB criteria of REACH, annex XIII.

**12.6 Endocrine disrupting properties**

No information available.

## 12.7 Other adverse effects

No information available.

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## SECTION 13: Disposal considerations

### 13.1 Waste treatment methods

#### remark

These codes are assigned based upon the most common uses for this material and may not reflect contaminants resulting from actual use.

#### Directive 2008/98/EC (Waste Framework Directive)

#### Before intended use

#### Appropriate disposal / Package

Non-contaminated packages may be recycled.

**Waste code product** 070708

**hazardous waste** Yes.

#### Waste name

other still bottoms and reaction residues

#### After intended use

#### Appropriate disposal / Product

Dispose of waste according to applicable legislation.

**Waste code packaging** 150110

**hazardous waste** Yes.

#### Waste name

packaging containing residues of or contaminated by hazardous substances

**Waste code packaging** 150102

**hazardous waste** No

#### Waste name

plastic packaging

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## SECTION 14: Transport information

	Land transport (ADR/RID)	Sea transport (IMDG)	Air transport (ICAO-TI / IATA-DGR)
14.1 UN number or ID number	3077	3077	3077
14.2 Proper Shipping Name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (zinc oxide)	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (zinc oxide)	Environmentally hazardous substance, solid, n.o.s. (zinc oxide)
14.3 Class(es)	9	9	9
14.4 Packing group	III	III	III
14.5 Environmental hazards	Yes.	Yes.	Yes.
14.6 Special precautions for user	not applicable	not applicable	not applicable
14.7 Maritime transport in bulk according to IMO instruments	not applicable	not applicable	not applicable

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**Additional information - Land transport (ADR/RID)**

<b>Hazard label(s)</b>	9
<b>Classification code</b>	M7
<b>Limited quantity (LQ)</b>	5 kg
<b>Hazard identification number (Kemler No.)</b>	90
<b>tunnel restriction code</b>	-
<b>transport category</b>	3

**Additional information - Sea transport (IMDG)**

<b>Marine pollutant</b>	Yes.
<b>Segregation group</b>	A
<b>remark</b>	EmS F-a,S-F

**Additional information - Air transport (ICAO-TI / IATA-DGR)**

<b>Limited quantity (LQ)</b>	30
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**SECTION 15: Regulatory information**

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

**EU legislation**

**Other regulations (EU)**

Information according to 1999/13/EC about limitation of emissions of volatile organic compounds (VOC-guideline).

Volatile organic compounds (VOC) content in percent by weight: 0 weight-%

**15.2 Chemical Safety Assessment**

not applicable

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**SECTION 16: Other information**

**Abbreviations and acronyms**

See overview table at [www.euphrac.eu](http://www.euphrac.eu)

**Additional 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.

**Relevant R-, H- and EUH-phrases (Number and full text)**

H400 Very toxic to aquatic life.

H410 Very toxic to aquatic life with long lasting effects.