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

1.1 Product identifier

Trade name/designation WLPF

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)

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
No data available

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

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.

After ingestion
Rinse mouth immediately and drink plenty of water.

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

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media
Foam
Extinguishing powder
Carbon dioxide (CO_2)
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

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

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/m³	10 mg/m³	
				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

DNEL type
DNEL long-term inhalative (systemic)
DNEL value 2,5 mg/m³
Substance name Zinkoxid

DNEL type
DNEL long-term dermal (systemic)
DNEL value 83 mg/kg
Substance name Zinkoxid

DNEL type
DNEL long-term oral (repeated)
DNEL value 0,83 mg/kg

DNEL worker

Substance name Zinkoxid

DNEL type
DNEL long-term inhalative (systemic)
DNEL value 5 mg/kg
Substance name Zinkoxid

DNEL type
DNEL long-term dermal (systemic)
DNEL 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
pH			not determined
Melting point/freezing point			not determined
Initial boiling point and boiling range			not determined
Flash point (°C)	ca.200 °C		
Evaporation rate			not determined
flammability			not determined
Upper explosion limit			not determined
lower explosion limit			not determined
Vapour pressure			not determined
Vapour density			not determined
Relative density	ca.2 g/cm³	Temperature 20 °C	
Fat solubility (g/L)			not determined
Water solubility (g/L)			The study does not need to be conducted because the substance is known to be insoluble in water.
Soluble (g/L) in			not determined
Partition coefficient: n-octanol/water			not determined
Auto-ignition temperature			not determined
Decomposition temperature			not determined

9.2 Other information

No data available

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

Materials to avoid
none

10.6 Hazardous decomposition products
No known hazardous decomposition products.

SECTION 11: Toxicological information

11.1 Information on toxicological effects

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

SECTION 12: Ecological information

12.1 Toxicity

Aquatic toxicity

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

ingredient Zinkoxid

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

Effective dose
EC50
Test durarion 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 Other adverse effects
No information available.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Appropriate disposal / Product
Dispose of waste according to applicable legislation.

Appropriate disposal / Package
Non-contaminated packages may be recycled.

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
Waste code product 070708
hazardous waste Yes.

Waste name
other still bottoms and reaction residues

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

SECTION 14: Transport information

	Land transport (ADR/RID)	Sea transport (IMDG)	Air transport (ICAO-TI / IATA-DGR)
14.1 UN-No.	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

	Land transport (ADR/RID)	Sea transport (IMDG)	Air transport (ICAO-TI / IATA-DGR)
14.4 Packing group	III	III	III
14.5 ENVIRONMENTALLY HAZARDOUS	Yes.	Yes.	Yes.
14.6 Special precautions for user	not applicable	not applicable	not applicable
14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code	not applicable	not applicablenot applicable	not applicable

Additional information - Land transport (ADR/RID)

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

Additional information - Sea transport (IMDG)

Marine pollutant	Yes.
Segregation group	A
remark	EmS F-a,S-F

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

Limited quantity (LQ)	30

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 Wt %

15.2 Chemical Safety Assessment

not applicable

SECTION 16: Other information

Abbreviations and acronyms

See overview table at 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.