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

1.1 Product identifier

Trade name/designation WLP

Unique Formula Identifier UFI: 7CQA-YUNU-MW0E-748Q

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

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 substance in the mixture does not meet the PBT/vPvB criteria according to REACH, annex XIII.

SECTION 3: Composition / information on ingredients

3.1 Substances (not applicable)

3.2 Mixtures

Hazardous ingredients

octamethylcyclotetrasiloxane <0,01 %
CAS 556-67-2
EC 209-136-7
INDEX 014-018-00-1
Repr. 2, H361f / Aquatic Chronic 1, H410

zinc oxide >50 - <100 %
CAS 1314-13-2
EC 215-222-5
INDEX 030-013-00-7
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.

Following 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 (CO_2)

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)
7631-86-9	Silica, amorphous	6 inhalable aerosol 2,4 respirable aerosol 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 zinc oxide

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

Substance name zinc oxide

type
DNEL long-term inhalative (systemic)
Value 2,5 mg/m³

Substance name zinc oxide

type
DNEL long-term dermal (systemic)
Value 83 mg/kg
Substance name octamethylcyclotetrasiloxane

type
Long-term – inhalation, systemic effects
Value 13 mg/kg
Substance name octamethylcyclotetrasiloxane

type
Long-term – inhalation, local effects
Value 13 mg/kg
Substance name octamethylcyclotetrasiloxane

type
Long-term - oral, systemic effects
Value 3,7 mg/kg

DNEL worker
Substance name zinc oxide

type
DNEL long-term inhalative (systemic)
Value 5 mg/m³
Substance name zinc oxide

type
DNEL long-term dermal (systemic)
Value 83 mg/kg
Substance name zinc oxide

type
Long-term – inhalation, local effects
Value 0,5 mg/kg
Substance name octamethylcyclotetrasiloxane

type
Long-term – inhalation, local effects
Value 73 mg/kg
Substance name octamethylcyclotetrasiloxane

type
Long-term – inhalation, systemic effects
Value 73 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	ca.260 °C	Melting point
Boiling point or initial boiling point and boiling range		not determined
flammability		not determined
Upper explosion limit		not determined
lower explosion limit		not determined
Flash point (°C)		not applicable
Auto-ignition temperature		not determined
Decomposition temperature		not determined
pH		in aqueous solution neutral
Kinematic viscosity		not determined
Water solubility		not determined
Soluble (g/L) in		not determined
Fat solubility		not determined

parameter	Method - source - remark
Partition coefficient: n-octanol/water	not determined
Vapour pressure	not determined
Density and/or relative density	not determined
Relative vapour density	not determined
particle characteristics	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
none

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

Acute dermal toxicity

ingredient zinc oxide
Acute dermal toxicity >2000 mg/kg
Effective dose
LD50:
Species:
Rat
ingredient octamethylcyclotetrasiloxane
Acute dermal toxicity 5000 mg/kg
Effective dose
LD50:
Species:
Rat

Acute inhalation toxicity (dust/mist)

ingredient zinc oxide

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

Effective dose
LC50:

Exposure time 4

Species:
Rat

ingredient octamethylcyclotetrasiloxane

Acute inhalation toxicity (dust/mist) 36 mg/kg

Effective dose
LC50:

Exposure time 4

Species:
Rat

Acute oral toxicity

ingredient zinc oxide

Acute oral toxicity >5000 mg/kg

Effective dose
LD50:

Species:
Rat

ingredient octamethylcyclotetrasiloxane

Acute oral toxicity >5000 mg/kg

Effective dose
LD50:

Species:
Rat

11.2 Information on other hazards
No information available.

SECTION 12: Ecological information

12.1 Toxicity

Aquatic toxicity

Acute (short-term) toxicity to algae and cyanobacteria

ingredient zinc oxide

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.

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

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)

	Land transport (ADR/RID)	Sea transport (IMDG)	Air transport (ICAO-TI / IATA-DGR)
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 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 weight-%

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.