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## 1 Identification of the substance/preparation and of the company/undertaking

- **Product details**
- **Trade name:** Suprotex® FDL
- **Article number:** 110390
- **Application of the substance / the preparation** Vulcanisation agent
- **Manufacturer/Supplier:**  
 Weserland GmbH  
 P.O. Box 21 04 80, 30404 Hannover, Germany  
 Hansastrasse 9 - 17, 30419 Hannover, Germany  
 Tel.: +49(0) 511 / 97997-0 / Fax: +49(0) 511 / 97997-70  
 e-mail: info@weserland.eu  
 internet: www.weserland.eu
- **Further information obtainable from:** Quality / environmental department

## 2 Composition/information on ingredients

- **Chemical characterization**
- **Description:** Aqueous mixture of substances listed below with nonhazardous additions.

- **Dangerous components:**

CAS: 1314-13-2 EINECS: 215-222-5	zinc oxide  N; R 50/53	25-50%
CAS: 102-06-7 EINECS: 203-002-1	1,3-diphenylguanidine Repr. Cat. 3;  Xn,  N; R 22-36/37/38-62-51/53	2.5-10%
CAS: 14324-55-1 EINECS: 238-270-9	zinc bis(diethylthiocarbamate)  Xn,  N; R 22-36/37/38-43-50/53	2.5-10%
CAS: 155-04-4 EINECS: 205-840-3	2-Mercaptobenzothiazol, Zinksalz  Xi; R 43	2.5-10%
CAS: 149-30-4 EINECS: 205-736-8	benzothiazole-2-thiol  Xi,  N; R 43-50/53	≤ 2.5%

- **Additional information:** For the wording of the listed risk phrases refer to section 16.

## 3 Hazards identification

- **Hazard description:**



Xn Harmful  
 N Dangerous for the environment

- **Information concerning particular hazards for human and environment:**

The product has to be labelled due to the calculation procedure of the "General Classification guideline for preparations of the EU" in the latest valid version.

R 43 May cause sensitisation by skin contact.

R 62 Possible risk of impaired fertility.

R 50/53 Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

- **Classification system:**

The classification is according to the latest editions of the EU-lists, and extended by company and literature data.

## 4 First aid measures

- **General information:** Take affected persons out of danger area. Remove any clothing soiled by the product.

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- **After inhalation:**  
Supply fresh air and to be sure call for a doctor.  
In case of unconsciousness place patient stably in side position for transportation.
- **After skin contact:** Immediately wash with water and soap and rinse thoroughly.
- **After eye contact:** Rinse opened eye for several minutes under running water.
- **After swallowing:** Seek medical advice immediately show this material safety data sheet.

## 5 Fire-fighting measures

- **Suitable extinguishing agents:**  
CO<sub>2</sub>, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
- **Additional information**  
Being an aqueous system, product itself does not burns. Fire extinguishing measures to be adopted to ambient fire.

## 6 Accidental release measures

- **Person-related safety precautions:** Wear protective clothing.
- **Measures for environmental protection:**  
Inform respective authorities in case of seepage into water course or sewage system.  
Dilute with plenty of water.  
Do not allow to enter sewers/ surface or ground water.
- **Measures for cleaning/collecting:**  
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).  
Dispose contaminated material as waste according to item 13.

## 7 Handling and storage

- **Handling:**
- **Information for safe handling:** No special measures required.
- **Information about fire - and explosion protection:** No special measures required.
- **Storage:**
- **Requirements to be met by storerooms and receptacles:** Store only in the original receptacle.
- **Information about storage in one common storage facility:** Store away from foodstuffs.
- **Further information about storage conditions:**  
Store dry and cool, protect from frost.  
+5 - +30°C
- **Storage class:** Storage classification (VCI-D): 12 Non-combustible liquids.

## 8 Exposure controls/personal protection

- **Additional information about design of technical facilities:** No further data; see item 7.
- **Ingredients with limit values that require monitoring at the workplace:**  
The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.
- **Additional information:**  
Necessary only if the dust LLV-value is exceeded. If formation of dust (mist, aerosols) occurs, use proper filtering device.
- **Personal protective equipment:**
- **General protective and hygienic measures:**  
Keep away from foodstuffs, beverages and feed.  
Immediately remove all soiled and contaminated clothing  
Wash hands before breaks and at the end of work.

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- **Respiratory protection:** Not required.
- **Protection of hands:**



Protective gloves

- **Material of gloves**

 Rubber gloves  
 (EN 374)

- **Penetration time of glove material**

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

- **Eye protection:**



Tightly sealed goggles

(EN 166)

- **Body protection:**

 Protective work clothing  
 (EN 344)

## 9 Physical and chemical properties

### · General Information

<b>Form:</b>	Fluid
<b>Colour:</b>	Whitish
<b>Odour:</b>	Characteristic

### · Change in condition

**Melting point/Melting range:** Undetermined.  
**Boiling point/Boiling range:** ~ 100°C

· **Flash point:** Not applicable.

· **Self-igniting:** Product is not selfigniting.

· **Danger of explosion:** Product does not present an explosion hazard.

· **Density at 20°C:** ~ 1.3 g/cm<sup>3</sup>

· **Solubility in / Miscibility with water:** Fully miscible.

· **pH-value at 20°C:** 10 - 11

· **Viscosity:**  
**Dynamic at 20°C:** 200 - 400 mPas

· **Solvent content:**  
**VOC (EC)** 0.04 %

## 10 Stability and reactivity

- **Thermal decomposition / conditions to be avoided:** No decomposition if used according to specifications.
- **Dangerous reactions** No dangerous reactions known.

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 · **Dangerous decomposition products:** No dangerous decomposition products known.

## 11 Toxicological information

 · **Acute toxicity:**

 · **LD/LC50 values relevant for classification:**

### 1314-13-2 zinc oxide

Oral	LD50	15000 mg/kg (rat)
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### 102-06-7 1,3-diphenylguanidine

Oral	LD50	350 mg/kg (rat)
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Dermal	LD50	>2000 mg/kg (rabbit)
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### 14324-55-1 zinc bis(diethylthiocarbamate)

Oral	LD50	2450 mg/kg (rat)
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 · **Primary irritant effect:**

 · **on the skin:** No data available.

 · **Sensitization:** Sensitization possible through skin contact.

 · **Additional toxicological information:**

The product shows the following dangers according to the calculation method of the General EU Classification Guidelines for Preparations as issued in the latest version:

Harmful

## 12 Ecological information

 · **Ecotoxicological effects:**

 · **Remark:** Very toxic for fish

 · **General notes:**

Water hazard class 3 (German Regulation) (Self-assessment): extremely hazardous for water

Do not allow product to reach ground water, water course or sewage system, even in small quantities.

Very toxic for aquatic organisms

## 13 Disposal considerations

 · **Product:**

 · **Recommendation**

Must not be disposed together with household garbage. Do not allow product to reach sewage system.

 · **Uncleaned packaging:**

 · **Recommendation:** Disposal must be made according to official regulations.

 · **Recommended cleansing agents:** Water, if necessary together with cleansing agents.

## 14 Transport information

 · **Land transport ADR/RID (cross-border)**

 · **ADR/RID class:** 9 Miscellaneous dangerous substances and articles.

 · **Danger code (Kemler):** 90

 · **UN-Number:** 3082

 · **Packaging group:** III

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- **Hazard label:** 9
- **Description of goods:** 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (zinc oxide, 1,3-diphenylguanidine)

- **Maritime transport IMDG:**



- **IMDG Class:** 9
- **UN Number:** 3082
- **Label:** 9
- **Packaging group:** III
- **EMS Number:** F-A,S-F
- **Marine pollutant:** Yes
- **Proper shipping name:** ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (zinc oxide, 1,3-diphenylguanidine)

- **Air transport ICAO-TI and IATA-DGR:**



- **ICAO/IATA Class:** 9
- **UN/ID Number:** 3082
- **Label:** 9
- **Packaging group:** III
- **Proper shipping name:** ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (zinc oxide, 1,3-diphenylguanidine)

## 15 Regulatory information

- **Labelling according to EU guidelines:**

The product has been classified and marked in accordance with EU Directives / Ordinance on Hazardous Materials.

- **Code letter and hazard designation of product:**

Xn Harmful

N Dangerous for the environment

- **Hazard-determining components of labelling:**

zinc bis(diethyldithiocarbamate)

2-Mercaptobenzothiazol, Zinksalz

1,3-diphenylguanidine

- **Risk phrases:**

43 May cause sensitisation by skin contact.

62 Possible risk of impaired fertility.

50/53 Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

- **Safety phrases:**

36/37/39 Wear suitable protective clothing, gloves and eye/face protection.

60 This material and its container must be disposed of as hazardous waste.

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· **National regulations:**

Class	Share in %
I	9.3

**16 Other information**

*This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.*

· **Relevant R-phrases**

22 Harmful if swallowed.

36/37/38 Irritating to eyes, respiratory system and skin.

43 May cause sensitisation by skin contact.

50/53 Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

62 Possible risk of impaired fertility.

· **Department issuing MSDS:** Quality / environmental department· **Contact:** Mr. Ehrle

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