

Printing date 27.03.2009

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

· Product details

· Trade name: **Suprotex® FNN**

· Article number: 110340

· 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)

phone: +49 (0)511 / 97997-0 / fax: +49 (0)511 / 97997-70

e-mail: info@weserland.eu

www.weserland.eu

· Further information obtainable from:

Quality / environment department, Andrew Ehrle, email: ehrle@weserland.eu

· Information in case of emergency:

Due operating hours

Dept. Quality/Environment

Phon +49 511 97997-36

or Phon +49 511 97997-0

2 Hazards identification

· Hazard description:



Xi Irritant

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 51/53 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.

3 Composition/information on ingredients

· Chemical characterization

· Description: Aqueous dispersion of zinc oxide, sulphur, vulcanisations accelerators and additives.

· Dangerous components:

CAS: 1314-13-2 EINECS: 215-222-5	zinc oxide  N; R 50/53	10-25%
CAS: 14324-55-1 EINECS: 238-270-9	zinc bis(diethylthiocarbamate)  Xn,  Xi,  N; R 22-36/37/38-43-50/53	2.5-10%
CAS: 155-04-4 EINECS: 205-840-3	zinc di(benzothiazol-2-yl) disulphide  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%
CAS: 1336-21-6 EINECS: 215-647-6	ammonia  C,  N; R 34-50	≤ 2.5%

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

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4 First aid measures

- **General information:** Immediately remove any clothing soiled by the product.
- **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:**
If swallowed, rinse mouth with water (only if the person is conscious).
If symptoms persist consult doctor.

5 Fire-fighting measures

- **Suitable extinguishing agents:**
CO₂, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
- **Special hazards caused by the substance, its products of combustion or resulting gases:**
May be released in case of fire:
harmful gases/vapours
- **Protective equipment:** Wear self-contained respiratory protective device.
- **Additional information**
Being an aqueous system, product itself does not burn. 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.
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).

7 Handling and storage

- **Handling:**
- **Information for safe handling:** No special precautions are necessary if used correctly.
- **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.

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- **Additional information:**
Necessary only if the a.m./dust WEL/LLV-value is exceeded. If formation of dust (mist, aerosols) occurs, use proper filtering device.
- **Personal protective equipment:**
- **General protective and hygienic measures:**
Immediately remove all soiled and contaminated clothing
Wash hands before breaks and at the end of work.
- **Respiratory protection:**
Necessary only if the dust WEL/LLV-value is exceeded. If formation of dust (mist, aerosols) occurs, use proper filtering device (e.g. particle filter type P, colour: white).
- **Protection of hands:**



Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

- **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:**
Goggles recommended during refilling
Tightly sealed goggles
(EN 166)
- **Body protection:**
Protective work clothing
(EN 344)

9 Physical and chemical properties

· General Information

Form:	Fluid
Colour:	Beige
Odour:	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/cm³

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

· **pH-value at 20°C:** 10.5 - 11.5

· **Viscosity:**
Dynamic at 20°C: < 200 mPas (Haake VT02)

· **Solvent content:**
Organic solvents: 0.0 %

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VOC (EC)	0.00 %
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10 Stability and reactivity

- **Thermal decomposition / conditions to be avoided:** No decomposition if used according to specifications.
- **Dangerous reactions** No dangerous reactions known.
- **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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Inhalative	4h-LC50	> 5.7 mg/l (rat)
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14324-55-1 zinc bis(diethylthiocarbamate)

Oral	LD50	2450 mg/kg (rat)
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Dermal	LD50	>3160 mg/kg (rabbit)
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149-30-4 benzothiazole-2-thiol

Oral	LD50	100 mg/kg (rat)
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Dermal	LD50	>7940 mg/kg (rabbit)
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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:

Irritant

- **Sensitisation** May cause sensitisation by skin contact.

12 Ecological information

- **Ecotoxic effects:**

- **Acquatic toxicity:**

1314-13-2 zinc oxide

72h-EC50	0.17 mg/l (green algae (<i>Selenastrum capricornutum</i>))
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14324-55-1 zinc bis(diethylthiocarbamate)

48h-EC50	0.24-0.44 mg/l (daphnia (<i>daphnia magna</i>))
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96h-LC50	0.23 mg/l (fish (<i>Oncorhynchus mykiss</i>))
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	0.26 mg/l (fish (<i>Pimephales promelas</i>))
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	0.40 mg/l (fish (<i>Lepomis macrochirus</i>))
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149-30-4 benzothiazole-2-thiol

96h-LC50 (static)	11 mg/l (fish (<i>Pimephales promelas</i>))
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- **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.

Danger to drinking water if even extremely small quantities leak into the ground.

Also poisonous for fish and plankton in water bodies.

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Toxic for aquatic organisms

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

· 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)

· 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)

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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:**
Xi Irritant
N Dangerous for the environment
- **Hazard-determining components of labelling:**
zinc bis(diethyldithiocarbamate)
zinc di(benzothiazol-2-yl) disulphide
- **Risk phrases:**
43 May cause sensitisation by skin contact.
51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
- **Safety phrases:**
24 Avoid contact with skin.
36/37 Wear suitable protective clothing and gloves.
60 This material and its container must be disposed of as hazardous waste.
- **National regulations:**
- **Breakdown regulations:**
Critical quantity values according to the regulations on accidents should be adhered to.
- **Classification according Safety of Operation Ordinance (german): -**

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.
34 Causes burns.
36/37/38 Irritating to eyes, respiratory system and skin.
43 May cause sensitisation by skin contact.
50 Very toxic to aquatic organisms.
50/53 Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
- **Department issuing MSDS:** *Quality / env. dept.*
- **Contact:** *Andrew Ehrle, email ehrle@weserland.eu*
- *** Data compared to the previous version altered.**

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