

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

### · Product details

· Trade name: **Suprotex® BNS**

· Article number: 114260

· 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

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[www.weserland.eu](http://www.weserland.eu)

### · Further information obtainable from:

Quality / environment department, Andreas Ehrle, email: [ehrle@weserland.eu](mailto: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 36/38 Irritating to eyes and skin.

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

### · Description:

Aqueous dispersion of zinc oxide, sulphur, anti-aging agent, vulcanisations accelerators and additives.

### · Dangerous components:

CAS: 1314-13-2 EINECS: 215-222-5	zinc oxide  N; R 50/53	2.5-10%
CAS: 7704-34-9 EINECS: 231-722-6	sulphur, precipitated, sublimed or colloidal  Xi; R 38	≤ 2.5%
CAS: 1310-58-3 EINECS: 215-181-3	potassium hydroxide  C,  Xn; R 22-35	≤ 2.5%
CAS: 14324-55-1 EINECS: 238-270-9	zinc bis(diethylthiocarbamate)  Xn,  Xi,  N; R 22-36/37/38-43-50/53	≤ 2.5%
CAS: 102-06-7 EINECS: 203-002-1	1,3-diphenylguanidine Repr. Cat. 3;  Xn,  Xi,  N; R 22-36/37/38-62-51/53	≤ 2.5%
CAS: 149-30-4 EINECS: 205-736-8	benzothiazole-2-thiol  Xi,  N; R 43-50/53	≤ 2.5%

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

#### 4 First aid measures

· **General information:**

Immediately remove any clothing soiled by the product.

Take affected persons out of danger area. Remove any clothing soiled by the product.

· **After inhalation:** Supply fresh air and to be sure call for a doctor.

· **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.

If swallowed, rinse mouth with water (only if the person is conscious).

#### 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.

· **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:**

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:**

In latex processing (e.g. in drying operations): Provide good ventilation or extraction.

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**· 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.

**· 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: Not required.**
**· 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:**

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:** 10.5 - 11.5

**· Viscosity:**

**Dynamic at 20°C:** 2000 - 3000 mPas

**· Solvent content:**

**Organic solvents:** 0.0 %

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VOC (EC)	0.01 %
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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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**1310-58-3 potassium hydroxide**

Oral	LD50	273 mg/kg (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

- **Ecotoxicological effects:**

- **Aquatic 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:**

Also poisonous for fish and plankton in water bodies.

Toxic for aquatic organisms

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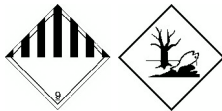
Water hazard class 2 (German Regulation) (Self-assessment): hazardous for water  
Do not allow product to reach ground water, water course or sewage system.  
Danger to drinking water if even small quantities leak into the ground.

### 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.

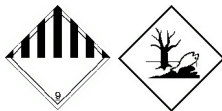
### 14 Transport information

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



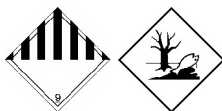
- **ADR/RID class:** 9 Miscellaneous dangerous substances and articles.
- **Danger code (Kemler):** 90
- **UN-Number:** 3082
- **Packaging group:** III
- **Hazard label:** 9
- **Special marking:** Symbol (fish and tree)
- **Description of goods:** 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (zinc oxide)

- **Maritime transport IMDG:**



- **IMDG Class:** 9
- **UN Number:** 3082
- **Label** 9
- **Packaging group:** III
- **EMS Number:** F-A,S-F
- **Marine pollutant:** No  
Symbol (fish and tree)
- **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
- **Special marking:** Symbol (fish and tree)
- **Packaging group:** III

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**· Proper shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (zinc oxide)****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)*

**· Risk phrases:**

*36/38 Irritating to eyes and skin.*

*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.*

*26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.*

*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.*

**· National regulations:****· Breakdown regulations:**

*GERMAN ORDINANCE OF FAILURE*

*Annex I - No.: 9b*

*Threshold for operating range to § 1 sec. 1*

*- Record 1: 500000 kg*

*- Record 2: 2000000 kg*

*Scope: dangerous substances for the environment (risk phrases R 51/53).*

**· 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.*

*35 Causes severe burns.*

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

*38 Irritating to 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 / env. dept.****· Contact: Andreas Ehrle, email: ehrle@weserland.eu****· \* Data compared to the previous version altered.**