

Printing date 21.04.2006

Reviewed on 21.04.2006

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

- **Product details**
- **Trade name:** Suprotex® KBH
- **Article number:** 110420
- **Application of the substance / the preparation** Vulcanisation system
- **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 dispersion of a vulcanisation system (zinc oxide, sulphur, vulcanisation accelerators, anti-aging agent) mixed with additives (dispersing and foaming agents).

- **Dangerous components:**

CAS: 68988-69-2 EINECS: 273-537-3	butanoic acid, 4-amino-4-oxosulfo-, N-tallow alkyl derivs., disodium salts ☒ Xi; R 36/38	10-25%
CAS: 7704-34-9 EINECS: 231-722-6	sulphur, precipitated, sublimed or colloidal	10-25%
CAS: 1314-13-2 EINECS: 215-222-5	zinc oxide ☒ N; R 50/53	2.5-10%
CAS: 155-04-4 EINECS: 205-840-3	zinc di(benzothiazol-2-yl) disulphide ☒ Xi; R 43	≤ 2.5%
CAS: 14726-36-4 EINECS: 238-778-0	zinc bis(dibenzylthiocarbamate) R 53	≤ 2.5%
CAS: 84501-49-5 EINECS: 282-968-6	sulfuric acid, mono-C9-11-alkyl esters, sodium salts ☒ Xi; R 38-41	≤ 2.5%
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%
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:**



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.

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- **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:** 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. If symptoms persist, consult a doctor.
- **After swallowing:** Seek medical advice immediately show this material safety data sheet.

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:**
In case of fire, the following can be released:
Nitrogen oxides (NO_x)
Sulphur dioxide (SO₂)
- **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.
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).

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:** According VCI (D): 12 (Not combustible liquids).

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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:**

7704-34-9 sulphur, precipitated, sublimed or colloidal

MAC 6 mg/m³ (Germany)

1314-13-2 zinc oxide

MAC 6 mg/m³ (Germany)

14726-36-4 zinc bis(dibenzylthiocarbamate)

MAC 6 mg/m³ (Germany)

149-30-4 benzothiazole-2-thiol

MAC 4 mg/m³ inhalable fraction (Germany)

MAC maximum allowable concentration

· **Additional information:**

Under regular working conditions there is no danger to exceed the a.m. MAC values.

In case of formation of aerosol/mist/vapour or in case the dispersion has dried with formation of dust use appropriate respiratory protection.

· **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.

Avoid contact with the eyes and skin.

· **Respiratory protection:**

Formation of: Dust, mist, aerosol:

Necessary only if the dust MAC-value is exceeded. If formation of dust, mist or aerosol occurs, use proper filtering device (e.g. particle filter type P, colour: white).

· **Protection of hands:**

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

· **Material of gloves**

Gloves of nitrile rubber (EN 374) recommended: Tricotted gloves with nitrile rubber coating (EN 374).

Deemed suitable from own experiences. After work apply hand cream.

· **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**

Form:	Fluid
Colour:	Light yellow
Odour:	Characteristic

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- **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:** *~ 1.1 g/cm³*
- **Solubility in / Miscibility with water:** *Fully miscible.*
- **pH-value at 20°C:** *9 - 10*
- **Viscosity:**
Dynamic at 20°C: < 600 mPas
- **Solvent content:**
Organic solvents: 0.0 %

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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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:** *Irritant to skin and mucous membranes.*
- **on the eye:** *Irritating effect.*
- **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

12 Ecological information

- **Ecotoxicological effects:**
- **Remark:** *Toxic for fish*
- **General notes:**
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.
Also poisonous for fish and plankton in water bodies.

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Toxic for aquatic organisms

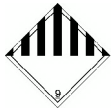
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13 Disposal considerations

- **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:** No
- **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 di(benzothiazol-2-yl) disulphide

· 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:

25 Avoid contact with eyes.

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

46 If swallowed, seek medical advice immediately and show this container or label.

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

16 Other information

· Relevant R-phrases

22 Harmful if swallowed.

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

36/38 Irritating to eyes and skin.

38 Irritating to skin.

41 Risk of serious damage to eyes.

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.

53 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**