







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

- **1.1 Product identifier**
- **Trade name: INDUFLEX-VK-TKF-2000 mv (B-Komp.)**
- **Article number: 555133B**
- **1.2 Relevant identified uses of the substance or mixture and uses advised against**  
No further relevant information available.
- **Application of the substance / the mixture** hardener component
- **1.3 Details of the supplier of the safety data sheet**
- **Manufacturer/Supplier:**  
SCHOMBURG GmbH  
Aquafinstr. 2-8  
D-32760 Detmold  
Germany  
-----  
Tel: ++49 (0)5231/953-00  
Fax: ++49 (0)5231/953-123  
email: info@schomburg.de  
web: www.schomburg.de
- **Informing department:**  
Product Safety Department  
  
Tel: ++49 (0)5231/953-193  
Fax: ++49 (0)5231/953-106  
email: guido.herfort@schomburg.de

**SECTION 2: Hazards identification**

- **2.1 Classification of the substance or mixture**
- **Classification according to Regulation (EC) No 1272/2008**
  -  GHS09 environment  
  
Aquatic Chronic 2 H411 Toxic to aquatic life with long lasting effects.
  -  GHS07  
  
Acute Tox. 4      H332 Harmful if inhaled.  
Skin Irrit. 2      H315 Causes skin irritation.  
Eye Irrit. 2      H319 Causes serious eye irritation.  
Skin Sens. 1      H317 May cause an allergic skin reaction.
- **Classification according to Directive 67/548/EEC or Directive 1999/45/EC**
  -  Xn; Harmful  
R22: Harmful if swallowed.
  -  Xi; Irritant  
R36/38: Irritating to eyes and skin.
  -  Xi; Sensitising  
R43: May cause sensitisation by skin contact.
  -  N; Dangerous for the environment

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R51/53: Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

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

The product may not leak out in sewerage system, stretch of water or soil.

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.

• **Classification system:**

The classification is in line with current EC lists. It is expanded, however, by information from technical literature and by information furnished by supplier companies.

• **2.2 Label elements**

• **Labelling according to Regulation (EC) No 1272/2008**

The product is classified and labelled according to the CLP regulation.

• **Hazard pictograms** GHS07, GHS09

• **Signal word** Warning

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

manganese dioxide

zinc bis(diethyldithiocarbamate)

• **Hazard statements**

H332 Harmful if inhaled.

H315 Causes skin irritation.

H319 Causes serious eye irritation.

H317 May cause an allergic skin reaction.

H411 Toxic to aquatic life with long lasting effects.

• **Precautionary statements**

P261 Avoid breathing dust/fume/gas/mist/vapours/spray.

P280 Wear protective gloves/protective clothing/eye protection/face protection.

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P304+P340 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.

P312 Call a POISON CENTER/doctor if you feel unwell.

P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

• **2.3 Other hazards**

• **Results of PBT and vPvB assessment**

• **PBT:** Not applicable.





• **vPvB:** Not applicable.

**SECTION 3: Composition/information on ingredients**

• **3.2 Chemical characterisation: Mixtures**

• **Description:** Mixture consisting of the following components.

• **Dangerous components:**

CAS: 27138-31-4	Oxydi-propyldibenzoat  N R51/53  Aquatic Chronic 2, H411	25-50%
CAS: 1313-13-9 EINECS: 215-202-6	manganese dioxide  Xn R20/22  Acute Tox. 4, H302; Acute Tox. 4, H332	25-50%

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# Safety data sheet

according to 1907/2006/EC, Article 31

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CAS: 14324-55-1 zinc bis(diethylthiocarbamate) &lt; 2.5%

EINECS: 238-270-9  Xn R22;  Xi R36/37/38;  Xi R43;  N R50/53

 Aquatic Acute 1, H400; Aquatic Chronic 1, H410;  Acute Tox. 4, H302; Skin Irrit. 2, H315; Eye Irrit. 2, H319; Skin Sens. 1, H317; STOT SE 3, H335

CAS: 1310-73-2 sodium hydroxide &lt; 1%

EINECS: 215-185-5  C R35 Skin Corr. 1A, H314

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

## SECTION 4: First aid measures

- **4.1 Description of first aid measures**
- **General information**  
Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.  
Personal protection for the First Aider.
- **After inhalation** Supply fresh air or oxygen; call for doctor.
- **After skin contact** Instantly wash with water and soap and rinse thoroughly.
- **After eye contact**  
Rinse opened eye for several minutes under running water. If symptoms persist, consult doctor.
- **After swallowing**  
Do not induce vomiting; instantly call for medical help.  
Show the pack or the label to the doctor.
- **4.2 Most important symptoms and effects, both acute and delayed**  
No further relevant information available.
- **4.3 Indication of any immediate medical attention and special treatment needed**  
No further relevant information available.

## SECTION 5: Firefighting measures

- **5.1 Extinguishing media**
- **Suitable extinguishing agents**  
CO<sub>2</sub>, extinguishing powder or water jet. Fight larger fires with water jet.
- **For safety reasons unsuitable extinguishing agents** Water with a full water jet.
- **5.2 Special hazards arising from the substance or mixture**  
Formation of poisonous gases during heating or in fires.
- **5.3 Advice for firefighters**
- **Protective equipment:** Wear self-contained breathing apparatus.
- **Additional information**  
Dispose of fire debris and contaminated fire fighting water in accordance with official regulations.  
Follow the emergency-plan.

## SECTION 6: Accidental release measures

- **6.1 Personal precautions, protective equipment and emergency procedures**  
Bring persons out of danger.  
Wear protective equipment. Keep unprotected persons away.
- **6.2 Environmental precautions:** Do not allow product to reach sewage system or water bodies.
- **6.3 Methods and material for containment and cleaning up:**  
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).  
Ensure adequate ventilation.
- **6.4 Reference to other sections**  
See Section 7 for information on safe handling  
See Section 8 for information on personal protection equipment.

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See Section 13 for information on disposal.

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### SECTION 7: Handling and storage

- **7.1 Precautions for safe handling**  
Ensure good ventilation/exhaustion at the workplace.  
Keep away from children.
- **Information about protection against explosions and fires:** No special measures required.
- **7.2 Conditions for safe storage, including any incompatibilities**
- **Storage**
- **Requirements to be met by storerooms and containers:** Store in cool location.
- **Information about storage in one common storage facility:**  
Please follow the rules of the VCI-Storage-Concept for chemicals.
- **Further information about storage conditions:**  
Keep container tightly sealed.  
Store in a locked cabinet and out of the reach of children.
- **7.3 Specific end use(s)** No further relevant information available.

### SECTION 8: Exposure controls/personal protection

- **Additional information about design of technical systems:**  
It must be possible to wash the skin in the working area.  
Eye-wash bottle must be available.
- **8.1 Control parameters**
- **Components with critical 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:** The lists that were valid during the compilation were used as basis.
- **8.2 Exposure controls**
- **Personal protective equipment**
- **General protective and hygienic measures**  
The usual precautionary measures should be adhered to in handling the chemicals.  
Instantly remove any soiled and impregnated garments.  
Avoid contact with the eyes and skin.  
Use skin protection cream for preventive skin protection.  
Be sure to clean skin thoroughly after work and before breaks.
- **Breathing equipment:** Not required.
- **Protection of hands:** Hand Protection: Nitril-rubber-latex-gloves.
- **Material of gloves**  
Butyl rubber II R: Thickness  $\geq 0,5\text{mm}$ ; Break through time  $\geq 480\text{ min}$
- **Penetration time of glove material**  
The exact break trough time has to be found out by the manufacturer of the protective gloves and has to be observed.
- **Eye protection:** Safety glasses
- **Body protection:** Protective work clothing.

### SECTION 9: Physical and chemical properties

- **9.1 Information on basic physical and chemical properties**
- **General Information**
- **Appearance:**

<b>Form:</b>	Viscous
<b>Colour:</b>	Dark brown

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· <b>Smell:</b>	Characteristic
· <b>Change in condition</b> <b>Melting point/Melting range:</b>	Not determined
<b>Boiling point/Boiling range:</b>	Not determined
· <b>Flash point:</b>	> 150 °C
· <b>Ignition temperature:</b>	400 °C
· <b>Self-inflammability:</b>	Product is not selfigniting.
· <b>Danger of explosion:</b>	Product is not explosive.
· <b>Density at 20 °C</b>	1.81 g/cm <sup>3</sup>
· <b>Solubility in / Miscibility with Water:</b>	Not miscible or difficult to mix
· <b>Viscosity:</b> <b>dynamic at 20 °C:</b>	25000 mPas
· <b>9.2 Other information</b>	No further relevant information available.

### SECTION 10: Stability and reactivity

- **10.1 Reactivity**
- **10.2 Chemical stability**
- **Thermal decomposition / conditions to be avoided:**  
No decomposition if used according to specifications.
- **10.3 Possibility of hazardous reactions** No dangerous reactions known
- **10.4 Conditions to avoid** No further relevant information available.
- **10.5 Incompatible materials:** No further relevant information available.
- **10.6 Hazardous decomposition products:** No dangerous decomposition products known

### SECTION 11: Toxicological information

- **11.1 Information on toxicological effects**
  - **Acute toxicity:**
  - **LD/LC50 values that are relevant for classification:**
- 
- 27138-31-4 Oxydipropyldibenzoat**
- |        |      |                     |
|--------|------|---------------------|
| Oral   | LD50 | 5313 mg/kg (rats)   |
| Dermal | LD50 | > 2000 mg/kg (rats) |
- 1313-13-9 manganese dioxide**
- |      |      |                    |
|------|------|--------------------|
| Oral | LD50 | 14900 mg/kg (rats) |
|------|------|--------------------|
- 14324-55-1 zinc bis(diethylthiocarbamate)**
- |            |          |                           |
|------------|----------|---------------------------|
| Oral       | LD50     | 1400 mg/kg (Maus)         |
|            |          | 400 - 570 mg/kg (rabbit)  |
|            |          | 700 - 3530 mg/kg (rats)   |
| Dermal     | LD50     | > 3160 mg/kg (rabbit)     |
|            |          | > 2000 mg/kg (rats)       |
| Inhalative | LC50/4 h | 0.026 - 0.081 mg/l (rats) |
- 1310-73-2 sodium hydroxide**
- |      |      |                   |
|------|------|-------------------|
| Oral | LD50 | 2000 mg/kg (rats) |
|------|------|-------------------|
- **Primary irritant effect:**
  - **on the skin:** Irritant for skin and mucous membranes.

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- **on the eye:** Irritant effect.
- **Sensitisation:** Sensitization possible by skin contact.
- **Additional toxicological information:**  
The product shows the following dangers according to the calculation method of the General EC Classification Guidelines for Preparations as issued in the latest version:  
Harmful  
Irritant  
Sensitizing

## SECTION 12: Ecological information

- **12.1 Toxicity**
  - **Aquatic toxicity:**
- 
- 27138-31-4 Oxydipropyldibenzoat**  
EC 50 19.3 mg/kg (Daphnia (acute) toxicity)
- 14324-55-1 zinc bis(diethyldithiocarbamate)**  
EC 50 0.24 - 0.44 mg/kg (Daphnia (acute) toxicity)
- 1310-73-2 sodium hydroxide**  
LC50 (48h) 133 mg/l (orfe)
- **12.2 Persistence and degradability** No further relevant information available.
  - **12.3 Bioaccumulative potential** No further relevant information available.
  - **12.4 Mobility in soil** No further relevant information available.
  - **Ecotoxicological effects:**
  - **Remark:** Toxic for fish
  - **Additional ecological information:**
  - **General notes:** Water hazard class 2 (Self-assessment): hazardous for water.
  - **12.5 Results of PBT and vPvB assessment**
  - **PBT:** Not applicable.
  - **vPvB:** Not applicable.
  - **12.6 Other adverse effects** No further relevant information available.

## SECTION 13: Disposal considerations

- **13.1 Waste treatment methods**
  - **Recommendation**  
Must not be disposed of together with household garbage. Do not allow product to reach sewage system.
  - **European waste catalogue**
- 
- 08 00 00 WASTES FROM THE MANUFACTURE, FORMULATION, SUPPLY AND USE (MFSU) OF COATINGS (PAINTS, VARNISHES AND VITREOUS ENAMELS), ADHESIVES, SEALANTS AND PRINTING INKS
- 08 04 00 wastes from MFSU of adhesives and sealants (including waterproofing products)
- 08 04 09\* waste adhesives and sealants containing organic solvents or other dangerous substances
- **Uncleaned packagings:**
  - **Recommendation:** Disposal must be made according to official regulations.

## SECTION 14: Transport information

- **14.1 UN-Number**
- **ADR, IMDG, IATA** UN3082

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<ul style="list-style-type: none"> <li>· <b>14.2 UN proper shipping name</b></li> <li>· <b>ADR</b></li> <li>· <b>IMDG</b></li> <li>· <b>IATA</b></li> </ul>	<p>3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (zinc bis(diethyldithiocarbamate))</p> <p>ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (SODIUM HYDROXIDE, manganese dioxide), MARINE POLLUTANT</p> <p>ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (SODIUM HYDROXIDE, manganese dioxide)</p>
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<ul style="list-style-type: none"> <li>· <b>14.3 Transport hazard class(es)</b></li> <li>· <b>ADR</b></li> </ul>	<p>9 Miscellaneous dangerous substances and articles.</p>
<ul style="list-style-type: none"> <li>· <b>Class</b></li> <li>· <b>Label</b></li> </ul>	<p>9</p>



- **IMDG, IATA**



<ul style="list-style-type: none"> <li>· <b>Class</b></li> <li>· <b>Label</b></li> </ul>	<p>8 Corrosive substances.</p> <p>9</p>
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<ul style="list-style-type: none"> <li>· <b>14.4 Packing group</b></li> <li>· <b>ADR, IMDG, IATA</b></li> </ul>	<p>III</p>
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<ul style="list-style-type: none"> <li>· <b>14.5 Environmental hazards:</b></li> <li>· <b>Marine pollutant:</b></li> <li>· <b>Special marking (ADR):</b></li> <li>· <b>Special marking (IATA):</b></li> </ul>	<p>Product contains environmentally hazardous substances: Oxydipropyldibenzoat, zinc bis(diethyldithiocarbamate)</p> <p>Yes</p> <p>Symbol (fish and tree)</p> <p>Symbol (fish and tree)</p> <p>Symbol (fish and tree)</p>
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<ul style="list-style-type: none"> <li>· <b>14.6 Special precautions for user</b></li> <li>· <b>Kemler Number:</b></li> <li>· <b>EMS Number:</b></li> <li>· <b>Segregation groups</b></li> </ul>	<p>Warning: Miscellaneous dangerous substances and articles.</p> <p>90</p> <p>F-A,S-F</p> <p>Alkalis</p>
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<ul style="list-style-type: none"> <li>· <b>14.7 Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code</b></li> </ul>	<p>Not applicable.</p>
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- **Transport/Additional information:**

<ul style="list-style-type: none"> <li>· <b>ADR</b></li> <li>· <b>Limited quantities (LQ)</b></li> <li>· <b>Transport category</b></li> <li>· <b>Tunnel restriction code</b></li> </ul>	<p>5L</p> <p>3</p> <p>E</p>
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- |   |  |
|---|--|
| <ul style="list-style-type: none"> <li>· <b>UN "Model Regulation":</b></li> </ul> | UN3082, ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (zinc bis(diethylthiocarbamate)), 9, III |
|---|--|

### SECTION 15: Regulatory information

- **15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**
- **National regulations**
- **Technical instructions (air):**
- **Class Share in %**
- **III 40.3**
- **Water hazard class:**  
Water hazard class 2 (Self-assessment): hazardous for water.  
The classification based on german instructions.
- **15.2 Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

### SECTION 16: Other information

These data are based on our present knowledge. However, they shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

- **Relevant phrases**

- |           |  |
|-----------|--|
| H302      | Harmful if swallowed.  |
| H314      | Causes severe skin burns and eye damage.   |
| H315      | Causes skin irritation.  |
| H317      | May cause an allergic skin reaction.   |
| H319      | Causes serious eye irritation.   |
| H332      | Harmful if inhaled.  |
| H335      | May cause respiratory irritation.  |
| H400      | Very toxic to aquatic life.  |
| H410      | Very toxic to aquatic life with long lasting effects.  |
| H411      | Toxic to aquatic life with long lasting effects.   |
| .....     |  |
| R20/22    | Harmful by inhalation and if swallowed.  |
| R22       | Harmful if swallowed.  |
| R35       | Causes severe burns.   |
| R36/37/38 | Irritating to eyes, respiratory system and skin.   |
| R43       | May cause sensitisation by skin contact.   |
| R50/53    | Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment. |
| R51/53    | Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.      |

- **Department issuing data specification sheet:** Environment protection department.

- **Contact:** Mr. Guido Herfort

- **Abbreviations and acronyms:**

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)  
 IMDG: International Maritime Code for Dangerous Goods  
 IATA: International Air Transport Association  
 GHS: Globally Harmonised System of Classification and Labelling of Chemicals  
 EINECS: European Inventory of Existing Commercial Chemical Substances  
 ELINCS: European List of Notified Chemical Substances  
 CAS: Chemical Abstracts Service (division of the American Chemical Society)  
 LC50: Lethal concentration, 50 percent  
 LD50: Lethal dose, 50 percent  
 Acute Tox. 4: Acute toxicity, Hazard Category 4  
 Skin Corr. 1A: Skin corrosion/irritation, Hazard Category 1A

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Skin Irrit. 2: Skin corrosion/irritation, Hazard Category 2  
Eye Irrit. 2: Serious eye damage/eye irritation, Hazard Category 2  
Skin Sens. 1: Sensitisation - Skin, Hazard Category 1  
STOT SE 3: Specific target organ toxicity - Single exposure, Hazard Category 3  
Aquatic Acute 1: Hazardous to the aquatic environment - AcuteHazard, Category 1  
Aquatic Chronic 1: Hazardous to the aquatic environment - Chronic Hazard, Category 1  
Aquatic Chronic 2: Hazardous to the aquatic environment - Chronic Hazard, Category 2

- \* **Data compared to the previous version altered.**

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