



### Material Safety Data Sheet According to 2001/58/EC

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1	Identification of substance/preparation and company	<ul style="list-style-type: none"> <li>• Product details</li> <li>• Trade name: Koppelpaste ZGM (couplant)</li> <li>• Manufacturer/Supplier: GE Inspection Technologies Systems GmbH Robert-Bosch-Str. 3 D-50354 Hürth / Germany Tel.: +49-2233-601-0 (exchange) Fax: +49-2233-601-402</li> <li>• Information provided by: GE Inspection Technologies Systems GmbH Department P-Lab Tel.: +49-2233-601-472 Fax: +49-2233-601-402</li> <li>• Emergency information: Outside office hours: Tel. +49-2233-601-472 or +49-2233-601-0 (tel. exchange)</li> </ul>
2	Composition/Data on components	<ul style="list-style-type: none"> <li>• Chemical characterization</li> <li>• Description: potassium hydroxofluoroborate in mineral oil</li> </ul> <p>Dangerous components: _____</p> <p>14075-53-7      potassium tetrafluoroborate      50-100 % Xn; R 22-36/38</p>
3	Hazard identification	<ul style="list-style-type: none"> <li>• Hazard designation:   <div style="display: flex; align-items: center; gap: 10px;"> <div style="border: 1px solid black; width: 30px; height: 30px; display: flex; align-items: center; justify-content: center;"> <span style="font-size: 2em; font-weight: bold;">X</span> </div> <div> <p>Xn Harmful</p> </div> </div> </li> <li>• Information referring to particular dangers for man and environment: R 20/21/22      Harmful if inhaled, swallowed and in contact with skin</li> <li>• Classification system: The classification corresponds to current EC lists to which are added, however, data taken from technical literature and information furnished by supplier companies.</li> </ul>



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#### 4 First-aid measures

- General information:  
Symptoms of poisoning may not occur until after many hours, and medical observation is therefore necessary for at least 48 hours after an accident.
- After inhalation:  
If unconscious, lay the patient down to stable side position for transport.  
Let inhale dexamethason spray (e.g. Auxiloson) as soon as possible.
- After skin contact:  
Wash immediately with water and soap and rinse thoroughly afterwards.  
With continuing skin irritation, consult a doctor.
- After eye contact:  
Irrigate the eyes with running fresh water for several minutes, holding the eyelids apart. If the symptoms persist, seek medical advice.
- After swallowing:  
Call a doctor immediately.
- Information for doctor:
- Danger  
If swallowed or in case of vomiting, danger of entering the lungs.

#### 5 Fire-fighting measures

- Suitable extinguishing agents:  
CO<sub>2</sub>, extinguishing powder or water jet. A large-scale fire should be fought using water jet or alcohol-resistant foam.
- Special hazards caused by the material, its products of combustion or flue gases:  
Hydrogen fluoride (HF)
- Special protective equipment:  
Wear self-contained breathing apparatus.

#### 6 Measures with accidental release:

- Personal safety precautions: Not required.
- Environmental protection measures:  
Prevent material from getting into the sewage system, drainage pits and cellars.
- Method for cleaning/collecting:  
Collect with liquid-absorbing material (sand, diatomite, acid neutralizer, universal binding agent, sawdust).  
Any contaminated material should be disposed of as waste according to item 13.

#### 7 Handling and storage

- Handling:
- Information on safe handling: Keep containers tightly sealed.
- Information on fire and explosion protection: No special measures required.
- Storage:
- Requirements regarding store rooms and storage tanks/containers:



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<p>Observe German TRGS 514 regulations if applicable.</p> <ul style="list-style-type: none"> <li>Information on storage in one common storage facility: Not required.</li> <li>Further information about storage conditions: Keep containers tightly sealed.</li> <li>Storage class:</li> <li>Class according to inflammable liquid regulation: Not applicable</li> </ul>																																								
<p>8 Exposure limits and personal protective equipment</p> <ul style="list-style-type: none"> <li>Additional information about the design of technical installations: No other data, please refer to item 7.</li> <li>Components with critical workplace-related limit values to be monitored: The product does not contain any relevant quantities of substances with critical workplace-related limit values to be monitored.</li> <li>Additional information: The currently valid safety information database (1994) was used to compile this data sheet.</li> <li>Personal protective equipment:</li> <li>General protective and hygienic measures: Keep away from foodstuffs, beverages and fodder. Take off contaminated and impregnated clothing immediately. Wash your hands before any breaks and at the end of work. Avoid any contact with the eyes and skin.</li> <li>Respiratory protection: Not required.</li> <li>Hand protection: Safety gloves.</li> <li>Eye protection: Tight-fitting safety glasses.</li> </ul>																																								
<p>9 Physical and chemical properties</p> <ul style="list-style-type: none"> <li>Form: fluid</li> <li>Color: according to product specification</li> <li>Smell: characteristic</li> </ul> <table border="1"> <thead> <tr> <th></th> <th>Value/Range</th> <th>Unit</th> <th>Method</th> </tr> </thead> <tbody> <tr> <td>Constitutional change</td> <td></td> <td></td> <td></td> </tr> <tr> <td>Melting point/melting range:</td> <td>Not determined</td> <td></td> <td></td> </tr> <tr> <td>Boiling point/boiling range:</td> <td>Not determined</td> <td></td> <td></td> </tr> <tr> <td>Flash point:</td> <td>280</td> <td>° C</td> <td>ISO 2592</td> </tr> <tr> <td>Ignition temperature:</td> <td>250</td> <td>° C</td> <td>DIN 51794</td> </tr> <tr> <td>Self-inflammability:</td> <td colspan="3">The product is not self-igniting.</td> </tr> <tr> <td>Explosion hazard:</td> <td colspan="3">The product is not explosive.</td> </tr> <tr> <td>Density:</td> <td>at 20°C</td> <td>1.138 g/cm3</td> <td>CB STAN 0001</td> </tr> <tr> <td>Solubility in / miscibility with water:</td> <td colspan="3">Not miscible or difficult to mix</td> </tr> </tbody> </table>		Value/Range	Unit	Method	Constitutional change				Melting point/melting range:	Not determined			Boiling point/boiling range:	Not determined			Flash point:	280	° C	ISO 2592	Ignition temperature:	250	° C	DIN 51794	Self-inflammability:	The product is not self-igniting.			Explosion hazard:	The product is not explosive.			Density:	at 20°C	1.138 g/cm3	CB STAN 0001	Solubility in / miscibility with water:	Not miscible or difficult to mix		
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- Solvent content:
- Solids content: 50.0 % DIN 51814

#### 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: hydrogen fluoride (HF)

#### 11 Toxicological information

Acute toxicity:

Primary effect of irritation:

on the skin: Irritates the skin and mucous membranes.

on the eye: Irritant effect

Additional toxicological information:

Harmful

Irritant

The irritant effect on tissues is intensified by the alkaline effect.

#### 12 Ecological information

- General notes:  
Water hazard class 1 (self-assessment according to general administrative regulations regarding the classification of substances and preparations according to water hazard classes):  
low water hazard.

#### 13 Notes on disposal

- Product:
- Recommendation:  
Must not be disposed of together with household refuse. Do not allow to reach the sewerage.
- Waste code number:  
54202  
Designation: grease waste  
Notes on disposal:  
Special waste incineration
- Uncleaned packings:
- Recommendation: Disposal must be made according to official regulations.

#### 14 Transport information

- Road and rail transport ADR/RID and GGVS/GGVE (transnational/domestic):
- ADR/RID-GGVS/E class: -
- Sea transport IMDG/GGVSea:
- Marine pollutant: No
- Transport/Additional information:



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No hazardous material according to current regulations	
15	<p>Regulatory information</p> <ul style="list-style-type: none"><li>• Identification according to the EC directives:</li><li>• Code letter and hazard designation of the product: Xn Harmful</li><li>• Hazard-determining components for labeling: potassium tetrafluoroborate</li><li>• Risk phrases: 20/21/22 Harmful if inhaled, swallowed and in contact with skin</li><li>• Safety phrases: 26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice 36 Wear suitable protective clothing during work 45 Call a doctor immediately in case of an accident or sudden illness (if possible, show this label) 51 Only use in well-ventilated areas</li><li>• National regulations:</li><li>• Classification according to inflammable liquid regulation: Not applicable</li><li>• Water hazard class: Water hazard class 1 (self-assessment according to general administrative regulations for the classification of substances and preparations according to water hazard classes): low water hazard.</li></ul>
16	<p>Other information:</p> <ul style="list-style-type: none"><li>• The data are based on our current knowledge. However, they shall neither constitute a guarantee for any specific product properties nor establish a legally valid contractual relationship.</li><li>• Data sheet issued by: GE Inspection Technologies Systems GmbH Department P-Lab</li><li>• Contact person: Dr. Splitt</li><li>• Validity: Upon issuance of the present material safety data sheet all previous ones for this product become null and void.</li></ul>