

- Metallographiebedarf
- Werkstofftechnik
- IDA Industrie-Diamant-Aachen

gemäß Verordnung (EG) Nr. 1907/2006

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

- **1.1 Product identifier**
- **Trade name: VariKEM 100 Komp. A**
- **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**  
Polyol component of a 2-component special resin system for industrial or professional applications.
- **Applications, which are not recommended:** Not suitable for do-it-yourself-applications
- **1.3 Details of the supplier of the safety data sheet**
- **Manufacturer/Supplier:**  
Schmitz-Metallographie GmbH  
Kaiserstraße 100  
D-52134 Herzogenrath
- **Telefon: 02407 568296-0**
- **E-Mail: info@schmitz-metallographie.de**
- **Internet: www.schmitz-metallographie.de**
- **Auskunftgebender Bereich: Labor; Erreichbarkeit Notrufnummer: Mo. – Fr. 09:00 – 16:00 Uhr**

(Contd. of page 1)

**Dangerous components:**

CAS: 25214-63-5	ethylenediamine, propoxylated	25-50%
Reg.nr.: 01-2119471485-32-0002	Eye Irrit. 2, H319	

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

**SECTION 4: First aid measures**

- **4.1 Description of first aid measures**
- **After inhalation:** Supply fresh air; consult doctor in case of complaints.
- **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:** If symptoms persist consult 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.

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### SECTION 5: Firefighting measures

- **5.1 Extinguishing media**
- **Suitable extinguishing agents:**  
CO<sub>2</sub>, powder or water spray. Fight larger fire with alcohol resistant foam.
- **For safety reasons unsuitable extinguishing agents:** Water with full jet
- **5.2 Special hazards arising from the substance or mixture**  
No further relevant information available.
- **5.3 Advice for firefighters**
- **Protective equipment:** Wear self-contained respiratory protective device.

### SECTION 6: Accidental release measures

- **6.1 Personal precautions, protective equipment and emergency procedures**  
Ensure adequate ventilation  
Wear protective clothing.
- **6.2 Environmental precautions:**  
Do not allow product to reach sewage system or any water course.  
Inform respective authorities in case of seepage into water course or sewage system.
- **6.3 Methods and material for containment and cleaning up:**  
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
- **6.4 Reference to other sections**  
See Section 7 for information on safe handling.  
See Section 8 for information on personal protection equipment.  
See Section 13 for disposal information.

### SECTION 7: Handling and storage

- **7.1 Precautions for safe handling**  
Ensure good ventilation/exhaustion at the workplace.  
Ensure good ventilation/exhaustion at the workplace.

(Contd. on page 3)

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(Contd. of page 2)

- Prevent formation of aerosols.
- **Information about fire - and explosion protection:** No special measures required.
- **7.2 Conditions for safe storage, including any incompatibilities**
- **Storage:**
- **Requirements to be met by storerooms and receptacles:** No special requirements.
- **Information about storage in one common storage facility:**  
Store away from foodstuffs.  
Store away from oxidising agents.  
Keep away from alkaline materials.  
Store away from foodstuffs.
- **Further information about storage conditions:**  
Please stir or shake thoroughly before use!  
Storage between 15°C and 30°C at a dry and well-ventilated place.  
Keep container tightly closed.
- **7.3 Specific end use(s)** No further relevant information available.

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**SECTION 8: Exposure controls/personal protection**

- *Additional information about design of technical facilities: No further data; see item 7.*
- **8.1 Control parameters**
- **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.*
- **Additional information: The lists valid during the making were used as basis.**
- **8.2 Exposure controls**
- **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.  
 Avoid contact with the eyes and skin.*
- **Respiratory protection:**  
*Use suitable respiratory protective device in case of insufficient ventilation.  
 Use of mask with gas filter A (organic materials, brown) is recommended.*
- **Protection of hands:**  
**Protective gloves**  
*For the permanent contact gloves made of Nitrilkautschuk with a layer thickness of at least 0.20 mm are suitable. The penetration time of this glove material is 480 minutes.  
 The glove material has to be according the requirement of EU-guideline 89/686/EWG and the resulting norm EN374, for example KCL Dermatril P,0743. The above mentioned penetration times are based on laboratory measurements of KCL according to EN 374.*  
  
*This recommendation is only valid for the product, which is delivered from us and only for the intended mentioned application. Regarding dissolution or mixing with other substances please contact suppliers of CE-approved gloves. (For example KCL GmbH, D-36124 Eichenzell, internet: [www.kcl.de](http://www.kcl.de))*  
  
*ebalta gives this recommendation in good faith, without liability for any claims arising from the recommendation or the use of the suggested protection gloves.*
- **Material of gloves**  
*The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated*  
(Contd. on page 4)

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(Contd. of page 3)

- in advance and has therefore to be checked prior to the application.*
- **Eye protection:**



**Tightly sealed goggles**



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### SECTION 9: Physical and chemical properties

#### - 9.1 Information on basic physical and chemical properties

##### - General Information

##### - Appearance:

Form:	Fluid
Colour:	White Cloudy
- Odour:	Weak, characteristic

##### - Change in condition

Melting point/freezing point:	Undetermined.
Initial boiling point and boiling range:	> 290 °C (DIN 53171)

- Flash point: > 130 °C (c.c.)

- Ignition temperature: 325 °C (DIN 51794)

- Auto-ignition temperature: Product is not selfigniting.

- Explosive properties: Product does not present an explosion hazard.

- Vapour pressure at 20 °C: 2 hPa ((hPa=mbar))

- Density at 20 °C: 1,01 g/cm<sup>3</sup> (ISO 2811)

##### - Solubility in / Miscibility with water:

Not miscible or difficult to mix.

##### - Viscosity:

Dynamic at 25 °C: 65 mPas (ISO 9371)

##### - 9.2 Other information

No further relevant information available.

### SECTION 10: Stability and reactivity

- 10.1 Reactivity No further relevant information available.

#### - 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: Oxidizing agent

- 10.6 Hazardous decomposition products:

At high temperatures dangerous decomposition products can be developed as for example: Smoke.

Nitrogen oxides (NO<sub>x</sub>)

(Contd. on page 5)

GB

Carbon monoxide and carbon dioxide

(Contd. of page 4)

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### SECTION 11: Toxicological information

- **11.1 Information on toxicological effects**
- **Acute toxicity** Based on available data, the classification criteria are not met.
- **Primary irritant effect:**
- **Skin corrosion/irritation** Based on available data, the classification criteria are not met.
- **Serious eye damage/irritation**  
Causes serious eye irritation.
- **Respiratory or skin sensitisation**  
Based on available data, the classification criteria are not met.
- **CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)**
- **Germ cell mutagenicity** Based on available data, the classification criteria are not met.
- **Carcinogenicity** Based on available data, the classification criteria are not met.
- **Reproductive toxicity** Based on available data, the classification criteria are not met.
- **STOT-single exposure** Based on available data, the classification criteria are not met.
- **STOT-repeated exposure** Based on available data, the classification criteria are not met.
- **Aspiration hazard** Based on available data, the classification criteria are not met.

### SECTION 12: Ecological information

- **12.1 Toxicity**
- **Aquatic toxicity:** No further relevant information available.
- **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.
- **Additional ecological information:**
- **General notes:**  
Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous for water  
Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.
- **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 together with household garbage. Do not allow product to reach sewage system.
- **Waste disposal key:**  
The Waste-Key-Numbers have to be given from the waste-producer depending on the respective trade. Therefore no information can be stated from the manufacturer.

- <b>European waste catalogue</b>
HP 4   Irritant - skin irritation and eye damage

(Contd. on page 6)

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- IDA Industrie-Diamant-Aachen

(Contd. of page 5)

- **Uncleaned packaging:**
- **Recommendation:**  
*Empty contaminated packagings thoroughly. They may be recycled after thorough and proper cleaning.*  
*Packagings that may not be cleansed are to be disposed of in the same manner as the product.*

#### SECTION 14: Transport information

- 14.1 UN-Number - ADR, ADN, IMDG, IATA	Void
- 14.2 UN proper shipping name - ADR, ADN, IMDG, IATA	Void
- 14.3 Transport hazard class(es) - ADR, ADN, IMDG, IATA - Class	Void
- 14.4 Packing group - ADR, IMDG, IATA	Void
- 14.5 Environmental hazards: - Marine pollutant:	No
- 14.6 Special precautions for user	Not applicable.
- 14.7 Transport in bulk according to Annex II of Marpol and the IBC Code	Not applicable.
- Transport/Additional information: - IATA	
- Remarks:	No dangerous good according to ADR
- UN "Model Regulation":	Void

#### SECTION 15: Regulatory information

- 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture
  - REGULATION (EC) No 1907/2006 ANNEX XVII Conditions of restriction: 3
  - National regulations:
  - VOC (EC) 0.05 %
  - Waterhazard class: Water hazard class 1 (Self-assessment): slightly hazardous for water.
  - Other regulations, limitations and prohibitive regulations
- |   |
|---|
| - Substances of very high concern (SVHC) according to REACH, Article 57 |
| No substances of very high concern contained resp. below the limit.     |
- 15.2 Chemical safety assessment:  
 A Chemical Safety Assessment has not been carried out.

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**SECTION 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 phrases**

*H319 Causes serious eye irritation.*

**- Department issuing SDS: Product Safety**

**- Contact:**

*Abteilung Produktsicherheit Telefon: 02407 568296-0*

**- Abbreviations and acronyms:**

*Eye Irrit. 2: Serious eye damage/eye irritation – Category 2*

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

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