

**1 Identification**

- Product identifier
- Trade name: **Okapox Royal Komp. A Colour: anthracite, velvet black, manhattan, bali brown, medium grey**
- Application of the substance / the mixture **Epoxy resin adhesive**
- Details of the supplier of the safety data sheet
- Manufacturer/Supplier: **Kiesel Bauchemie GmbH & Co. KG  
Wolf-Hirth-Str. 2  
D-73730 Esslingen  
Germany  
E-Mail:  
info.canada@kiesel.com  
info.usa@kiesel.com**
- Information department: **Laboratory, departments of environmental protection and labor protection**
- Emergency telephone number: **ChemTel Expert Assistance Hotline 800-255-2824**

**2 Hazard(s) identification**

- Classification of the substance or mixture

**GHS08 Health hazard****Carcinogenicity 1A H350 May cause cancer. Route of exposure: Inhalation.****Toxic to Reproduction 1A H360 May damage fertility or the unborn child.****GHS07****Skin Irritation 2 H315 Causes skin irritation.****Eye Irritation 2A H319 Causes serious eye irritation.****Sensitization - Skin 1 H317 May cause an allergic skin reaction.**

- Label elements

- GHS label elements

**The product is classified and labeled according to the Globally Harmonized System (GHS).**

- Hazard pictograms

**GHS07 GHS08**

- Signal word

**Danger**

- Hazard-determining components of labeling:

**Quarz  
4,4'-Methylen diphenyldiglycidylether  
1,4-Bis(2,3-epoxypropoxy)butan  
C12-C14 aliphatic glycidyl ethers  
Titandioxid  
Reaction products of hexane-1,6-diol with 2-(chloromethyl)  
oxirane (1:2)**

- Hazard statements

**Causes skin irritation.  
Causes serious eye irritation.  
May cause an allergic skin reaction.  
May cause cancer. Route of exposure: Inhalation.  
May damage fertility or the unborn child.**

- Precautionary statements

**Obtain special instructions before use.  
Do not handle until all safety precautions have been read and understood.**

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# Safety Data Sheet

acc. to OSHA HCS

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Trade name: Okapox Royal Komp. A Colour: anthracite, velvet black, manhattan, bali brown, medium grey

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**Avoid breathing dust/fume/gas/mist/vapors/spray**  
**Wash thoroughly after handling.**  
**Contaminated work clothing must not be allowed out of the workplace.**  
**Wear protective gloves/protective clothing/eye protection/face protection.**  
**If on skin: Wash with plenty of water.**  
**If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.**  
**IF exposed or concerned: Get medical advice/attention. Specific treatment (see on this label).**  
**Take off contaminated clothing and wash it before reuse.**  
**If skin irritation or rash occurs: Get medical advice/attention.**  
**If eye irritation persists: Get medical advice/attention.**  
**Wash contaminated clothing before reuse.**  
**Store locked up.**  
**Dispose of contents/container in accordance with local/regional/national/international regulations.**  
**Restricted to professional users**

- Additional information:
- Classification system:
- NFPA ratings (scale 0 - 4)



Health = 2  
 Fire = 1  
 Reactivity = 0

- HMIS-ratings (scale 0 - 4)



Health = \*2  
 Fire = 1  
 Reactivity = 0

## 3 Composition/information on ingredients

- Composition/Information on ingredients
- Chemical characterization: Mixtures
- Description:

Low molecular epoxy resin based on epichlorohydrin and bisphenol modified with aliphatic glycidyl ether and fillers.  
 Niedermolekulares Epoxidharz auf Basis Epichlorhydrin und Bisphenol mit aliphatischen Glycidylether modifiziert und Füllstoffen.

- Dangerous components:

|                  |                                                                                                                                                              |
|------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------|
| CAS: 14808-60-7  | Quarz<br>Consisting of: 14808-60-7 Quarz (>98%); 14808-60-7 Quarz (Feinfraktion) (1-10%)<br>☠ Carcinogenicity 1A, H350                                       |
| CAS: 1675-54-3   | 4,4'-Methylen diphenyldiglycidylether<br>⚠ Skin Irritation 2, H315; Eye Irritation 2A, H319; Sensitization - Skin 1, H317                                    |
| CAS: 1309-37-1   | Iron oxide                                                                                                                                                   |
| CAS: 68609-97-2  | C12-C14 aliphatic glycidyl ethers<br>☠ Toxic to Reproduction 1A, H360<br>⚠ Skin Irritation 2, H315; Sensitization - Skin 1, H317                             |
| CAS: 933999-84-9 | Reaction products of hexane-1,6-diol with 2-(chloromethyl) oxirane (1:2)<br>⚠ Skin Irritation 2, H315; Eye Irritation 2A, H319; Sensitization - Skin 1, H317 |

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|                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
|-----------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| CAS: 7440-44-0  | <b>Graphit</b><br> <b>Flammable Solids 1, H228; Self-heating substances and mixtures 1, H251</b>                                                                                                                                                                                                                                                                                                                     |
| CAS: 2425-79-8  | <b>1,4-Bis(2,3-epoxypropoxy)butan</b><br> <b>Toxic to Reproduction 1A, H360</b><br> <b>Eye Damage 1, H318</b><br> <b>Acute Toxicity - Oral 4, H302; Acute Toxicity - Inhalation 4, H332; Skin Irritation 2, H315; Sensitization - Skin 1, H317</b> |
| CAS: 13463-67-7 | <b>Titandioxid</b><br> <b>Carcinogenicity 2, H351</b>                                                                                                                                                                                                                                                                                                                                                                |

- Additional information: CAS: 7440-44-0 : This substance is firmly bound in the matrix of this product and therefore does not contribute to the labelling.  
For the wording of the listed hazard phrases refer to section 16.

## 4 First-aid measures

- Description of first aid measures
- General information: Immediately remove any clothing soiled by the product. If you feel unwell, seek medical advice.
- 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.  
Seek medical treatment 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.
- Information for doctor:
- Most important symptoms and effects, both acute and delayed No further relevant information available.
- Indication of any immediate medical attention and special treatment needed No further relevant information available.

## 5 Fire-fighting measures

- Extinguishing media
- Suitable extinguishing agents: CO2, extinguishing powder or water spray. Fight larger fire with alcohol resistant foam.  
Use fire fighting measures that suit the environment.
- For safety reasons unsuitable extinguishing agents: Water with full jet
- Special hazards arising from the substance or mixture In certain fire conditions, traces of other toxic gases cannot be excluded.
- Advice for firefighters
- Protective equipment: Wear non-circulation breathing equipment and chemical-protective clothing. Do not inhale explosion gases or fire fumes.

US

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## 6 Accidental release measures

- Personal precautions, protective equipment and emergency procedures      **Wear protective clothing.**
- Environmental precautions:      **No special measures required.**
- Methods and material for containment and cleaning up: **Dispose contaminated material as waste according to section 13.**  
**Pick up mechanically.**
- 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.**
- Protective Action Criteria for Chemicals

### • PAC-1:

|                 |                                       |                         |
|-----------------|---------------------------------------|-------------------------|
| CAS: 14808-60-7 | Quarz                                 | 0.075 mg/m <sup>3</sup> |
| CAS: 1675-54-3  | 4,4'-Methylen diphenyldiglycidylether | 39 mg/m <sup>3</sup>    |
| CAS: 1309-37-1  | Iron oxide                            | 15 mg/m <sup>3</sup>    |
| CAS: 7440-44-0  | Graphit                               | 6.0 mg/m <sup>3</sup>   |
| CAS: 2425-79-8  | 1,4-Bis(2,3-epoxypropoxy)butan        | 16 mg/m <sup>3</sup>    |
| CAS: 13463-67-7 | Titandioxid                           | 30 mg/m <sup>3</sup>    |

### • PAC-2:

|                 |                                       |                       |
|-----------------|---------------------------------------|-----------------------|
| CAS: 14808-60-7 | Quarz                                 | 8.3 mg/m <sup>3</sup> |
| CAS: 1675-54-3  | 4,4'-Methylen diphenyldiglycidylether | 430 mg/m <sup>3</sup> |
| CAS: 1309-37-1  | Iron oxide                            | 360 mg/m <sup>3</sup> |
| CAS: 7440-44-0  | Graphit                               | 330 mg/m <sup>3</sup> |
| CAS: 2425-79-8  | 1,4-Bis(2,3-epoxypropoxy)butan        | 170 mg/m <sup>3</sup> |
| CAS: 13463-67-7 | Titandioxid                           | 330 mg/m <sup>3</sup> |

### • PAC-3:

|                 |                                       |                         |
|-----------------|---------------------------------------|-------------------------|
| CAS: 14808-60-7 | Quarz                                 | 50 mg/m <sup>3</sup>    |
| CAS: 1675-54-3  | 4,4'-Methylen diphenyldiglycidylether | 2,600 mg/m <sup>3</sup> |
| CAS: 1309-37-1  | Iron oxide                            | 2,200 mg/m <sup>3</sup> |
| CAS: 7440-44-0  | Graphit                               | 2,000 mg/m <sup>3</sup> |
| CAS: 2425-79-8  | 1,4-Bis(2,3-epoxypropoxy)butan        | 220 mg/m <sup>3</sup>   |
| CAS: 13463-67-7 | Titandioxid                           | 2,000 mg/m <sup>3</sup> |

## 7 Handling and storage

- Handling:
- Precautions for safe handling      **Keep receptacles tightly sealed.**  
**Ensure good ventilation/exhaustion at the workplace.**  
**Open and handle receptacle with care.**
- Information about protection against explosions and fires:      **Keep respiratory protective device available.**
- Conditions for safe storage, including any incompatibilities
- Storage:
- Requirements to be met by storerooms and receptacles:      **No special requirements.**

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- Information about storage in one common storage facility: Store away from foodstuffs.
- Further information about storage conditions: Keep receptacle tightly sealed.
- Specific end use(s): No further relevant information available.

## 8 Exposure controls/personal protection

- Additional information about design of technical systems: No further data; see section 7.

- Control parameters
- Components 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.

The following constituents are the only constituents of the product which have a PEL, TLV or other recommended exposure limit.

At this time, the other constituents have no known exposure limits.

CAS: 14808-60-7 Quarz

PEL Long-term value: 0.05\* mg/m<sup>3</sup>  
\*resp. dust; 30mg/m<sup>3</sup>/‰SiO<sub>2</sub>+2

REL Long-term value: 0.05\* mg/m<sup>3</sup>  
\*respirable dust; See Pocket Guide App. A

TLV Long-term value: 0.025\* mg/m<sup>3</sup>  
\*respirable particulate matter, A2

CAS: 1309-37-1 Iron oxide

PEL Long-term value: 10\* mg/m<sup>3</sup>  
\*Fume

REL Long-term value: 5 mg/m<sup>3</sup>  
Dust & fume, as Fe

TLV Long-term value: 5\* mg/m<sup>3</sup>  
\*Respirable particulate matter, A4

CAS: 13463-67-7 Titandioxid

PEL Long-term value: 15\* mg/m<sup>3</sup>  
\*total dust

REL See Pocket Guide App. A

TLV Long-term value: 0.2\* 2.5\*\* mg/m<sup>3</sup>  
resp. fraction, \*nanoscale, \*\*finescale, A3

- Additional information: The lists that were valid during the creation were used as basis.

- 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.  
Store protective clothing separately.  
Avoid contact with the eyes and skin.

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Trade name: Okapox Royal Komp. A Colour: anthracite, velvet black, manhattan, bali brown, medium grey

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- **Breathing equipment:** Suitable respiratory protection for low concentrations or short-term exposure: particle filter EN 143 type P2 (medium retention capacity (solid and liquid pollutant particles))  
In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use respiratory protective device that is independent of circulating air.  
Breathing apparatus only if aerosol or dust is formed.
- **Recommended filter device for short term use:** Filter AX
- **Protection of hands:** Check the permeability prior to each renewed use of the glove. Preventive skin protection by use of skin-protecting agents is recommended.  
Protective gloves  
The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.  
Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation
- **Material of gloves** Nitrile rubber, NBR  
Fluorocarbon rubber (Viton)  
PVC gloves
- **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:** Tightly sealed goggles.
- **Body protection:** Protective work clothing

## 9 Physical and chemical properties

- **Information on basic physical and chemical properties**
- **Appearance:**
  - Form: Paste
  - Color: According to product specification
- **Odor:** Weak, characteristic
- **Odor threshold:** Not determined.
- **pH-value:** Mixture is non-soluble (in water).
- **Change in condition**
  - Melting point/Melting range: 1,713 °C (35.113 °F)
  - Boiling point/Boiling range: >100 °C (>212 °F)  
nicht anwendbar
- **Flash point:** >100 °C (>212 °F)
- **Flammability:** Not determined.
- **Decomposition temperature:** Not determined.
- **AUTO IGNITION:** Not self igniting
- **Danger of explosion:** Product does not present an explosion hazard.
- **Explosion limits:**
  - Lower: Not determined.
  - Upper: Not determined.
- **Vapor pressure at 1732 °C (3,149.6 °F):** 13.5 hPa (10.1 mm Hg)
- **Density at 20 °C (68 °F):** 1.7 g/cm<sup>3</sup> (14.1865 lbs/gal)
- **Bulk density:** 1,400 kg/m<sup>3</sup>

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|                                            |                                       |
|--------------------------------------------|---------------------------------------|
| · Relative density                         | Not determined.                       |
| · Vapor density                            | Not applicable.                       |
| · Evaporation rate                         | Not applicable.                       |
| · Solubility in / Miscibility with Water:  | not miscible                          |
| · Partition coefficient (n-octanol/water): | Not determined.                       |
| · Viscosity:                               |                                       |
| Dynamic at 20 °C (68 °F):                  | 60,000 mPas                           |
| Kinematic:                                 | Not applicable.                       |
| · Solvent content:                         |                                       |
| Organic solvents:                          | 2.0 %                                 |
| VOC-Content                                | 2.00 %                                |
|                                            | 34.0 g/l / 0.28 lb/gal                |
| · Solids content:                          | 69.8-74.6 %                           |
| · Volatile Organic Compounds               | 34.0 g/l                              |
|                                            | 2.00 %                                |
| · Other information                        | The physical data are average values. |

## 10 Stability and reactivity

|                                                     |                                                       |
|-----------------------------------------------------|-------------------------------------------------------|
| · Reactivity                                        | No further relevant information available.            |
| · Chemical stability                                |                                                       |
| · Thermal decomposition / conditions to be avoided: | No decomposition if used according to specifications. |
| · Possibility of hazardous reactions                | No dangerous reactions known.                         |
| · Conditions to avoid                               | No further relevant information available.            |
| · Incompatible materials:                           | No further relevant information available.            |
| · Hazardous decomposition products:                 | No dangerous decomposition products known.            |

## 11 Toxicological information

- Information on toxicological effects
- Acute toxicity:

· LD/LC50 values that are relevant for classification:

CAS: 68609-97-2 C12-C14 aliphatic glycidyl ethers

|      |      |                     |
|------|------|---------------------|
| Oral | LD50 | >10,000 mg/kg (Rat) |
|------|------|---------------------|

CAS: 2425-79-8 1,4-Bis(2,3-epoxypropoxy)butan

|        |      |                       |
|--------|------|-----------------------|
| Oral   | LD50 | 1,163 mg/kg (Rat)     |
| Dermal | LD50 | >2,150 mg/kg (Rat)    |
|        |      | >2,150 mg/kg (rabbit) |

CAS: 13463-67-7 Titandioxid

|            |          |                     |
|------------|----------|---------------------|
| Oral       | LD50     | >10,000 mg/kg (Rat) |
| Dermal     | LD50     | >10,000 mg/kg (-)   |
| Inhalative | LC50/4 h | >5 mg/l (-)         |

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

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- **Sensitization:** Contains a sensitizing substance. May cause allergic reactions.  
Sensitization possible through skin contact.
- **Additional toxicological information:** The product shows the following dangers according to internally approved calculation methods for preparations:  
Irritant

- **Carcinogenic categories**

- **IARC (International Agency for Research on Cancer)**

|                 |                                       |    |
|-----------------|---------------------------------------|----|
| CAS: 14808-60-7 | Quarz                                 | 1  |
| CAS: 1675-54-3  | 4,4'-Methylen diphenyldiglycidylether | 3  |
| CAS: 1309-37-1  | Iron oxide                            | 3  |
| CAS: 13463-67-7 | Titandioxid                           | 2B |

- **NTP (National Toxicology Program)**

|                 |       |   |
|-----------------|-------|---|
| CAS: 14808-60-7 | Quarz | K |
|-----------------|-------|---|

- **OSHA-Ca (Occupational Safety & Health Administration)**

None of the ingredients is listed.

## 12 Ecological information

- **Toxicity**

- **Aquatic toxicity:**

CAS: 1675-54-3 4,4'-Methylen diphenyldiglycidylether

LC 50 (96h) 1-10 mg/l (Fisch)  
Diese Substanz ist giftig für Wasserorganismen (LC50/EC50/IC50 zwischen 1 und 10 mg/l für die empfindlichste Spezies).  
2 mg/l (Oncorhynchus mykiss ( Regenbogenforelle))

EC50 (48h) (static) 1.8 mg/l (Dap)

CAS: 2425-79-8 1,4-Bis(2,3-epoxypropoxy)butan

LC 50 (96h) 19.8 mg/l (Fisch)

EC50 (24h) 75 mg/l (Dap)

- **Persistence and degradability** No further relevant information available.

- **Behavior in environmental systems:**

- **Bioaccumulative potential** No further relevant information available.

- **Mobility in soil** No further relevant information available.

- **Additional ecological information:**

- **General notes:**

Water hazard class 2 (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.

- **Results of PBT and vPvB assessment**

- **PBT:** Not applicable.

- **vPvB:** Not applicable.

- **Other adverse effects** No further relevant information available.

## 13 Disposal considerations

- **Waste treatment methods**

- **Recommendation:** Disposal in accordance with official regulations

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- Uncleaned packagings:
- Recommendation:

Disposal must be made according to official regulations.

## 14 Transport information

- UN-Number
- DOT, ADR, IMDG, IATA

UN3077

- UN proper shipping name
- DOT

Environmentally hazardous substance, solid, n.o.s. (reaction product: bisphenol-A-(epichlorhydrin) epoxy resin (number average molecular weight = 700))

- ADR

3077 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (bisphenol A-(epichlorhydrin); epoxy resin(number average molecular weight<700))

- IMDG, IATA

ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (bisphenol A-(epichlorhydrin); epoxy resin(number average molecular weight<700))

- Transport hazard class(es)
- DOT, IMDG



- Class

9 Miscellaneous dangerous substances and articles

- Label

9

- ADR, IATA



- Class

9 Miscellaneous dangerous substances and articles

- Label

9

- Packing group

- DOT, ADR, IMDG, IATA

III

- Environmental hazards:

- Marine pollutant:

No

- Special marking (ADR):

Symbol (fish and tree)

- Special marking (IATA):

Symbol (fish and tree)

- Special precautions for user

Warning: Miscellaneous dangerous substances and articles

- Hazard identification number (Kemler code):

40

- EMS Number:

F-A,S-J

- Stowage Category

C

- Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code

Not applicable.

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## • Transport/Additional information:

### • ADR

#### • Excepted quantities (EQ)

Code: E2

Maximum net quantity per inner packaging: 30 g

Maximum net quantity per outer packaging: 500 g

### • IMDG

#### • Limited quantities (LQ)

0

#### • Excepted quantities (EQ)

Code: E2

Maximum net quantity per inner packaging: 30 g

Maximum net quantity per outer packaging: 500 g

### • Remarks:

Special Provision 375

### • UN "Model Regulation":

UN 3077 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (BISPHENOL A-(EPICHLORHYDRIN); EPOXY RESIN(NUMBER AVERAGE MOLECULAR WEIGHT<700)), 9, III

## 15 Regulatory information

### • Safety, health and environmental regulations/legislation specific for the substance or mixture

#### • Sara

#### • Section 355 (extremely hazardous substances):

None of the ingredient is listed.

#### • Section 313 (Specific toxic chemical listings):

None of the ingredients is listed.

#### • TSCA (Toxic Substances Control Act):

|                 |                                       |        |
|-----------------|---------------------------------------|--------|
| CAS: 14808-60-7 | Quarz                                 | ACTIVE |
| CAS: 1675-54-3  | 4,4'-Methylen diphenyldiglycidylether | ACTIVE |
| CAS: 9003-36-5  | Bisphenol-F-epichlorhydrinharze       | ACTIVE |
| CAS: 1309-37-1  | Iron oxide                            | ACTIVE |
| CAS: 68609-97-2 | C12-C14 aliphatic glycidyl ethers     | ACTIVE |
| CAS: 7440-44-0  | Graphit                               | ACTIVE |
| CAS: 2425-79-8  | 1,4-Bis(2,3-epoxypropoxy)butan        | ACTIVE |
| CAS: 13463-67-7 | Titandioxid                           | ACTIVE |

#### • Hazardous Air Pollutants

None of the ingredients is listed.

#### • Proposition 65

#### • Chemicals known to cause cancer:

CAS: 14808-60-7 Quarz

CAS: 13463-67-7 Titandioxid

#### • Chemicals known to cause reproductive toxicity for females:

None of the ingredients is listed.

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· Chemicals known to cause reproductive toxicity for males:

None of the ingredients is listed.

· Chemicals known to cause developmental toxicity:

None of the ingredients is listed.

· New Jersey Right-to-Know List:

CAS: 14808-60-7 Quarz

CAS: 1309-37-1 Iron oxide

CAS: 13463-67-7 Titandioxid

· New Jersey Special Hazardous Substance List:

CAS: 14808-60-7 Quarz

CA

· Pennsylvania Right-to-Know List:

CAS: 14808-60-7 Quarz

CAS: 1309-37-1 Iron oxide

CAS: 13463-67-7 Titandioxid

· Pennsylvania Special Hazardous Substance List:

None of the ingredients is listed.

· Cancerogenity categories

· EPA (Environmental Protection Agency)

None of the ingredients is listed.

· TLV (Threshold Limit Value)

CAS: 14808-60-7 Quarz

A2

CAS: 1309-37-1 Iron oxide

A4

CAS: 13463-67-7 Titandioxid

A4

· MAK (German Maximum Workplace Concentration)

CAS: 14808-60-7 Quarz

1

CAS: 1675-54-3 4,4'-Methylen diphenyldiglycidylether

3A

CAS: 13463-67-7 Titandioxid

3A

· NIOSH-Ca (National Institute for Occupational Safety and Health)

CAS: 14808-60-7 Quarz

CAS: 13463-67-7 Titandioxid

· GHS label elements

The product is classified and labeled according to the Globally Harmonized System (GHS).

· Hazard pictograms



GHS07 GHS08

· Signal word

Danger

· Hazard-determining components of labeling:

Quarz  
4,4'-Methylen diphenyldiglycidylether  
1,4-Bis(2,3-epoxypropoxy)butan  
C12-C14 aliphatic glycidyl ethers  
Titandioxid

Reaction products of hexane-1,6-diol with 2-(chloromethyl)oxirane (1:2)

· Hazard statements

Causes skin irritation.  
Causes serious eye irritation.  
May cause an allergic skin reaction.  
May cause cancer. Route of exposure: Inhalation.  
May damage fertility or the unborn child.

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# Safety Data Sheet

acc. to OSHA HCS

Printing date 09/05/2025

Reviewed on 09/05/2025

**Trade name:** Okapox Royal Komp. A **Colour:** anthracite, velvet black, manhattan, bali brown, medium grey

(Contd. of page 11)

· **Precautionary statements**

**Obtain special instructions before use.**  
**Do not handle until all safety precautions have been read and understood.**  
**Avoid breathing dust/fume/gas/mist/vapors/spray**  
**Wash thoroughly after handling.**  
**Contaminated work clothing must not be allowed out of the workplace.**  
**Wear protective gloves/protective clothing/eye protection/face protection.**  
**If on skin: Wash with plenty of water.**  
**If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.**  
**IF exposed or concerned: Get medical advice/attention.**  
**Specific treatment (see on this label).**  
**Take off contaminated clothing and wash it before reuse.**  
**If skin irritation or rash occurs: Get medical advice/attention.**  
**If eye irritation persists: Get medical advice/attention.**  
**Wash contaminated clothing before reuse.**  
**Store locked up.**  
**Dispose of contents/container in accordance with local/regional/national/international regulations.**

· **National regulations:**

· **Information about limitation of use:**

**Workers are not allowed to be exposed to the hazardous carcinogenic materials contained in this preparation. Exceptions can be made by the authorities in certain cases. Employment restrictions concerning young persons must be observed.**  
**Employment restrictions concerning pregnant and lactating women must be observed.**

· **Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

## 16 Other information

Chapters which have been revised from the previous issue are marked "\*\*\*".

Data of items 4 to 8, as well as 10 to 12, do partly not refer to the use and the regular employing of the (in this sense consult information on use and on product), but to liberation of major amounts in case of accidents and irregularities.

To the best of our knowledge, the information contained in this SDS is accurate. It is intended to assist the user in his evaluation of the product's hazards, and safety precautions to be taken in its use. The data on this SDS relate only to the specific material designated herein. We do not assume any liability for the use, or reliance in this information, nor do we guarantee its accuracy or completeness.

· **Department issuing SDS:** Health protection and safety

· **Contact:**

· **Date of preparation / last revision**

09/05/2025 / 16

· **Abbreviations and acronyms:** ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International Carriage of Dangerous Goods by Road)  
 IMDG: International Maritime Code for Dangerous Goods  
 DOT: US Department of Transportation  
 IATA: International Air Transport Association  
 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)  
 NFPA: National Fire Protection Association (USA)

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(Contd. of page 12)

HMIS: Hazardous Materials Identification System (USA)

VOC: Volatile Organic Compounds (USA, EU)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

PBT: Persistent, Bioaccumulative and Toxic

vPvB: very Persistent and very Bioaccumulative

NIOSH: National Institute for Occupational Safety

OSHA: Occupational Safety &amp; Health

TLV: Threshold Limit Value

PEL: Permissible Exposure Limit

REL: Recommended Exposure Limit

Flammable Solids 1: Flammable solids – Category 1

Self-heating substances and mixtures 1: Self-heating substances and mixtures – Category 1

Acute Toxicity - Oral 4: Acute toxicity – Category 4

Skin Irritation 2: Skin corrosion/irritation – Category 2

Eye Damage 1: Serious eye damage/eye irritation – Category 1

Eye Irritation 2A: Serious eye damage/eye irritation – Category 2A

Sensitization - Skin 1: Skin sensitisation – Category 1

Carcinogenicity 1A: Carcinogenicity – Category 1A

Carcinogenicity 2: Carcinogenicity – Category 2

Toxic to Reproduction 1A: Reproductive toxicity – Category 1A

· \* Data compared to the previous version altered.

US