



Safety data sheet

according to Regulation (EC) No 1907/2006, Article 31

Printing date 06.02.2025

Version number 10 (replaces version 9)

Revision: 06.02.2025

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

• 1.1 Product identifier

• Trade name

Okapox Royal Komp. A Colour sand

• UFI:

6Q62-20XP-500W-1H8W

• 1.2 Relevant identified uses of the substance or mixture and uses advised against

none

• Sector of Use

SU22 Professional uses: Public domain (administration, education, entertainment, services, craftsmen)

• Product category

PC1 Adhesives, sealants

• Application of the substance / the mixture

Epoxy resin adhesive

• 1.3 Details of the supplier of the safety data sheet

• Manufacturer/Supplier:

Kiesel Bauchemie GmbH & Co. KG
Wolf-Hirth-Str. 2

D-73730 Esslingen

Tel.: +49(0)711/93134-0

Fax: +49(0)711/93143-140

E-Mail: sida@kiesel.com

• Informing department:

Laboratory, departments of environmental protection and labor protection

• 1.4 Emergency telephone number:

Poison Information Center Freiburg Tel.: +49(0)761/ 19240
(24h German and English)

SECTION 2: Hazards identification

• 2.1 Classification of the substance or mixture

• Classification according to Regulation (EC) No 1272/2008



GHS08 health hazard

Repr. 1A

H360F May damage fertility.

STOT RE 2

H373 May cause damage to the lung through prolonged or repeated exposure. Route of exposure: Inhalation.



GHS07

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.

Aquatic Chronic 3 H412 Harmful to aquatic life with long lasting effects.

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- **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 GHS08
- **Signal word** **Danger**
- **Hazard-determining components of labelling:**

Quartz (SiO₂)
 bis[4-(2,3-epoxypropoxy)phenyl]propane
 C12-C14 aliphatic glycidyl ethers
 formaldehyde, oligomeric reaction products with 1-chloro-2,3-epoxypropane and phenol
 Reaction products of hexane-1,6-diol with 2-(chloromethyl)oxirane (1:2)
 1,4-bis(2,3-epoxypropoxy)butane
- **Hazard statements**

H315 Causes skin irritation.
H319 Causes serious eye irritation.
H317 May cause an allergic skin reaction.
H360F May damage fertility.
H373 May cause damage to the lung through prolonged or repeated exposure. Route of exposure: Inhalation.
H412 Harmful to aquatic life with long lasting effects.
- **Precautionary statements**

P102 Keep out of reach of children.
P260 Do not breathe dust/fume/gas/mist/vapours/spray.
P280 Wear protective gloves / eye protection / face protection.
P302+P352 IF ON SKIN: Wash with plenty of water.
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P308+P313 IF exposed or concerned: Get medical advice/attention.
P333+P313 If skin irritation or rash occurs: Get medical advice/attention.
P337+P313 If eye irritation persists: Get medical advice/attention.
P405 Store locked up.
P501 Dispose of contents/container in accordance with local/regional/national/international regulations.
- **Additional information:** Restricted to professional users
- **2.3 Other hazards**
- **Results of PBT and vPvB assessment**
- **PBT:** Not applicable.

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· vPvB:

Not applicable.

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SECTION 3: Composition/information on ingredients

· 3.2 Mixtures

· Description:

Low molecular epoxy resin based on epichlorohydrin and bisphenol modified with aliphatic glycidyl ether and fillers.

· Dangerous components:

CAS: 14808-60-7	Quartz (SiO ₂) Consisting of: 14808-60-7 Quarz (>98%); 14808-60-7 Quartz (fine fraction) (1-10%) ☠ STOT RE 2, H373	50-100%
CAS: 1675-54-3	bis[4-(2,3-epoxypropoxy)phenyl]propane ⚠ Aquatic Chronic 2, H411 ⚠ Skin Irrit. 2, H315; Eye Irrit. 2, H319; Skin Sens. 1, H317 Specific concentration limits: Eye Irrit. 2; H319: C ≥ 5 % Skin Irrit. 2; H315: C ≥ 5 %	≥5-<25%
CAS: 9003-36-5	formaldehyde, oligomeric reaction products with 1-chloro-2,3-epoxypropane and phenol ⚠ Aquatic Chronic 2, H411 ⚠ Skin Irrit. 2, H315; Skin Sens. 1, H317	≥2.5-<10%
CAS: 68609-97-2	C12-C14 aliphatic glycidyl ethers ⚠ Repr. 1A, H360F ⚠ Skin Irrit. 2, H315; Skin Sens. 1, H317	≥1-<2.5%
CAS: 933999-84-9	Reaction products of hexane-1,6-diol with 2-(chloromethyl)oxirane (1:2) ⚠ Skin Irrit. 2, H315; Eye Irrit. 2, H319; Skin Sens. 1, H317 Aquatic Chronic 3, H412	≥1-<2.5%
CAS: 2425-79-8	1,4-bis(2,3-epoxypropoxy)butane ⚠ Eye Dam. 1, H318 ⚠ Acute Tox. 4, H302; Acute Tox. 4, H332; Skin Irrit. 2, H315; Skin Sens. 1, H317 Aquatic Chronic 3, H412	≥1-<2.5%

· 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

· General information

If you feel unwell, seek medical advice.

· After inhalation

Provide plenty of fresh air.

In case of unconsciousness bring patient into stable side position for transport.

Seek medical treatment in case of complaints.

· After skin contact

Instantly wash with water and soap and rinse thoroughly.

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- After eye contact *Rinse opened eye for several minutes under running water. If symptoms persist, consult doctor.*
- After swallowing *In case of persistent symptoms 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.*

SECTION 5: Firefighting measures

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

SECTION 6: Accidental release measures

- 6.1 Personal precautions, protective equipment and emergency procedures *Wear protective clothing.
Put on breathing apparatus.*
- 6.2 Environmental precautions: *Inform respective authorities in case product reaches water or sewage system.*
- 6.3 Methods and material for containment and cleaning up: *Dispose of contaminated material as waste according to item 13.
Collect mechanically.*
- 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.

SECTION 7: Handling and storage

- 7.1 Precautions for safe handling
 Do not leave the container standing open.
 Ensure good ventilation/exhaustion at the workplace.
- Information about protection against explosions and fires: Keep breathing equipment ready.
- 7.2 Conditions for safe storage, including any incompatibilities
- Storage
- Requirements to be met by storerooms and containers: No special requirements.
- Information about storage in one common storage facility: Store away from foodstuffs.
- Further information about storage conditions: Keep container tightly sealed.
- Storage class 6.1 C
- 7.3 Specific end use(s) No further relevant information available.

SECTION 8: Exposure controls/personal protection

- 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.

 CAS: 14808-60-7 Quartz (SiO₂)

 BOELV Long-term value: 0.1* mg/m³
 *respirable fraction

· DNELs

CAS: 2425-79-8 1,4-bis(2,3-epoxypropoxy)butane

Oral Long-term value 0.56 mg/kg/d (Consumer)

Dermal Long-term value 9.26 mg/kg/d (Worker)

5.56 mg/kg/d (Consumer)

 Inhalative Long-term value 1.63 mg/m³ (Worker)

 0.48 mg/m³ (Consumer)

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

- 8.2 Exposure controls
- Appropriate engineering controls

No further data; see section 7.

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- **Individual protection measures, such as personal protective equipment**
- **General protective and hygienic measures**

Keep away from foodstuffs, beverages and food.
 Instantly remove any soiled and impregnated garments.
 Wash hands during breaks and at the end of the work.
 Store protective clothing separately.
 Avoid contact with the eyes and skin.
- **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 breathing filter apparatus. In case of intensive or longer exposure use breathing apparatus that is independent of circulating air.
 Breathing apparatus only if aerosol or dust is formed.
- **Recommended filter device for short term use:**

Filter AX
- **Hand protection**

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 through time has to be found out by the manufacturer of the protective gloves and has to be observed.
- **Eye/face protection**

Tightly sealed safety glasses.
- **Body protection:**

Protective work clothing.

SECTION 9: Physical and chemical properties

- **9.1 Information on basic physical and chemical properties**
- **Physical state**

Solid.
- **Colour:**

According to product specification
- **Smell:**

Weak, characteristic
- **Odour threshold:**

Not determined.
- **Melting point/freezing point:**

1,713 °C
- **Boiling point or initial boiling point and boiling range**

>100 °C
 not apply
- **Flammability**

Not determined.
- **Lower and upper explosion limit**
- **Lower:**

Not determined.

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· Upper:	Not determined.
· Flash point:	>100 °C
· Decomposition temperature:	Not determined.
· pH	Mixture is non-soluble (in water).
· Viscosity:	
· Kinematic viscosity	Not applicable.
· dynamic at 20 °C:	60,000 mPas
· Solubility	
· Water:	not miscible
· Partition coefficient n-octanol/water (log value)	Not determined.
· Steam pressure at 1732 °C:	13.5 hPa
· Density and/or relative density	
· Density at 20 °C	1.7 g/cm ³
· Relative density	Not determined.
· Settled apparent density	1,400 kg/m ³
· Vapour density	Not applicable.
· Particle characteristics	See section 3.

· 9.2 Other information	The physical data are average values.
· Appearance:	
· Form:	Pasty
· Self-inflammability:	Product is not selfigniting.
· Explosive properties:	Product is not explosive.
· Solvent content:	
· Organic solvents:	2.0 %
· Solids content:	74.6 %
· Volatile Organic Compounds	34.0 g/l
	2.00 %
· Molecular weight	60.09 g/mol
· Change in condition	
· Evaporation rate	Not applicable.

· Information with regard to physical hazard classes	
· Explosives	Void
· Flammable gases	Void
· Aerosols	Void
· Oxidising gases	Void
· Gases under pressure	Void
· Flammable liquids	Void
· Flammable solids	Void
· Self-reactive substances and mixtures	Void
· Pyrophoric liquids	Void
· Pyrophoric solids	Void
· Self-heating substances and mixtures	Void
· Substances and mixtures, which emit flammable gases in contact with water	Void
· Oxidising liquids	Void

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· Oxidising solids	Void
· Organic peroxides	Void
· Corrosive to metals	Void
· Desensitised explosives	Void

SECTION 10: Stability and reactivity

· 10.1 Reactivity	No further relevant information available.
· 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:	None known.

SECTION 11: Toxicological information

- 11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008
- Acute toxicity Based on available data, the classification criteria are not met.

- LD/LC50 values that are relevant for classification:

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

Oral	LD50	>10,000 mg/kg (Rat)
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CAS: 2425-79-8 1,4-bis(2,3-epoxypropoxy)butane

Oral	LD50	1,163 mg/kg (Rat)
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Dermal	LD50	>2,150 mg/kg (Rat)
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- Primary irritant effect:
- Skin corrosion/irritation Causes skin irritation.
- Serious eye damage/irritation Causes serious eye irritation.
- Respiratory or skin sensitisation Contains a sensitizing substance. May cause allergic reactions.
May cause an allergic skin reaction.
- 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 May damage fertility.
- STOT-single exposure Based on available data, the classification criteria are not met.
- STOT-repeated exposure May cause damage to the lung through prolonged or repeated exposure. Route of exposure: Inhalation.
- Aspiration hazard Based on available data, the classification criteria are not met.

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· 11.2 Information on other hazards

· Endocrine disrupting properties

None of the ingredients is listed.

SECTION 12: Ecological information

· 12.1 Toxicity

· Aquatic toxicity:

CAS: 1675-54-3 bis[4-(2,3-epoxypropoxy)phenyl]propane

LC 50 (96h)

1-10 mg/l (Fisch)

This substance is toxic to aquatic organisms (LC50/EC50/IC50 between 1 and 10 mg/l for the most sensitive species).

2 mg/l (Oncorhynchus mykiss (Regenbogenforelle))

EC50 (48h) (static)

1.8 mg/l (Dap)

CAS: 9003-36-5 formaldehyde, oligomeric reaction products with 1-chloro-2,3-epoxypropane and phenol

LC 50 (96h)

mg/l (Fisch)

This substance is toxic to aquatic organisms (LC50/EC50/IC50 between 1 and 10 mg/l for the most sensitive species).

2.54 mg/l (Oncorhynchus mykiss (Regenbogenforelle))

CAS: 2425-79-8 1,4-bis(2,3-epoxypropoxy)butane

LC 50 (96h)

19.8 mg/l (Fisch)

EC50 (24h)

75 mg/l (Dap)

· 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.

· 12.5 Results of PBT and vPvB assessment

· PBT:

Not applicable.

· vPvB:

Not applicable.

· 12.6 Endocrine disrupting properties

The product does not contain substances with endocrine disrupting properties.

· 12.7 Other adverse effects

· Remark:

Harmful to fish

· Additional ecological information:

· General notes:

 Water hazard class 2 (Self-assessment): hazardous for water.
 Do not allow product to reach ground water, water bodies or sewage system.

Danger to drinking water if even small quantities leak into soil.

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Harmful to aquatic organisms

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SECTION 13: Disposal considerations

· 13.1 Waste treatment methods

· Recommendation

Disposal according to official regulations

· European waste catalogue

08 04 09* waste adhesives and sealants containing organic solvents or other hazardous substances

· Uncleaned packagings:

· Recommendation:

Disposal must be made according to official regulations.

SECTION 14: Transport information

· 14.1 UN number or ID number

· ADR, IMDG, IATA

UN3077

· 14.2 UN proper shipping name

· ADR

3077 ENVIRONMENTALLY HAZARDOUS
SUBSTANCE, SOLID, N.O.S.

· IMDG, IATA

ENVIRONMENTALLY HAZARDOUS
SUBSTANCE, SOLID, N.O.S.

· 14.3 Transport hazard class(es)

· ADR, IATA



· Class

9 Miscellaneous dangerous substances and
articles.

· Label

9

· IMDG



· Class

9 Miscellaneous dangerous substances and
articles.

· Label

9

· 14.4 Packing group

· ADR, IMDG, IATA

III

· 14.5 Environmental hazards:

· Marine pollutant:

No

· Special marking (ADR):

Symbol (fish and tree)

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· Special marking (IATA):	Symbol (fish and tree)
· 14.6 Special precautions for user	Warning: Miscellaneous dangerous substances and articles.
· Kemler Number:	90
· EMS Number:	F-A,S-F
· Stowage Category	A
· Stowage Code	SW23 When transported in BK3 bulk container, see 7.6.2.12 and 7.7.3.9.
· 14.7 Maritime transport in bulk according to IMO instruments	Not applicable.
· Transport/Additional information:	
· ADR	
· Limited quantities (LQ)	5 kg
· Excepted quantities (EQ)	Code: E1
	Maximum net quantity per inner packaging: 30 g
	Maximum net quantity per outer packaging: 1000 g
· Transport category	3
· Tunnel restriction code	(-)
· IMDG	
· Limited quantities (LQ)	5 kg
· Excepted quantities (EQ)	Code: E1
	Maximum net quantity per inner packaging: 30 g
	Maximum net quantity per outer packaging: 1000 g
· Remarks:	Special Provision 375
· UN "Model Regulation":	UN 3077 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. 9, III

SECTION 15: Regulatory information

- **15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**
- **Directive 2012/18/EU**
- **Named dangerous substances - ANNEX I** **None of the ingredients are included**
- **DIRECTIVE 2011/65/EU on the restriction of the use of certain hazardous substances in electrical and electronic equipment – Annex II**
- None of the ingredients is listed.**

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· **REGULATION (EU) 2019/1148**

· **Annex I - RESTRICTED EXPLOSIVES PRECURSORS (Upper limit value for the purpose of licensing under Article 5(3))**

None of the ingredients is listed.

· **Annex II - REPORTABLE EXPLOSIVES PRECURSORS**

None of the ingredients is listed.

· **Regulation (EC) No 273/2004 on drug precursors**

None of the ingredients is listed.

· **Regulation (EC) No 111/2005 laying down rules for the monitoring of trade between the Community and third countries in drug precursors**

None of the ingredients is listed.

· **National regulations**

· **Information about limitation of use:**

Employment restrictions concerning young persons must be observed.

Employment restrictions concerning pregnant and lactating women must be observed.

· **15.2 Chemical safety assessment:**

A Chemical Safety Assessment has not been carried out.

SECTION 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.

This information describes exclusively the safety requirements for the product(s) and is based on the present level of our knowledge. It does not constitute a legal warranty regulations. The delivery specifications are contained in the corresponding product sheet.

This Safety Data Sheet is in compliance with Regulation (EC) No 1907/2006, Article 31 as amended by Regulation (EU) 2020/878.

· **Date of previous version:** 11.10.2021

· **Version number of previous version:** 9

· **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
 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)
 DNEL: Derived No-Effect Level (REACH)
 LC50: Lethal concentration, 50 percent
 LD50: Lethal dose, 50 percent

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PBT: Persistent, Bioaccumulative and Toxic
vPvB: very Persistent and very Bioaccumulative
Acute Tox. 4: Acute toxicity – Category 4
Skin Irrit. 2: Skin corrosion/irritation – Category 2
Eye Dam. 1: Serious eye damage/eye irritation – Category 1
Eye Irrit. 2: Serious eye damage/eye irritation – Category 2
Skin Sens. 1: Skin sensitisation – Category 1
Repr. 1A: Reproductive toxicity – Category 1A
STOT RE 2: Specific target organ toxicity (repeated exposure) – Category 2
Aquatic Chronic 2: Hazardous to the aquatic environment - long-term aquatic hazard – Category 2
Aquatic Chronic 3: Hazardous to the aquatic environment - long-term aquatic hazard – Category 3

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

The information is based on our knowledge we do have so far. However it is not a confirmation of product features and does not establish contractual legal relationship. Use, operation and processing are the responsibility of the customer.