



1 Identification

- Product identifier
- Trade name: *Okapox Royal Komp. A colour sand grey, pergamon, safari sand, snow, Mochacino, Slate, Universalgrau, coffee, white, silver grey, jura, stone grey, shadow*
- 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 enviromental protection and labor protection*
- Emergency telephone number: *ChemTel Expert Assiatance Hotline 800-255-2824*

2 Hazard identification

- Classification of the substance or mixture



GHS08 Health hazard

Reproductive Toxicity - Category 1A H360 May damage fertility or the unborn child.



GHS07

Skin Irritation - Category 2

H315 Causes skin irritation.

Eye Irritation - Category 2A

H319 Causes serious eye irritation.

Skin Sensitizer - Category 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:

4,4'-Methylen diphenyldiglycidylether

C12-C14 aliphatic glycidyl ethers

1,4-Bis(2,3-epoxypropoxy)butan

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 damage fertility or the unborn child.

- Precautionary statements

Keep out of reach of children.

Do not handle until all safety precautions have been read and understood.

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

Wash thoroughly after handling.

(Contd. on page 2)

Safety Data Sheet

according to HPR, Schedule 1

Printing date 07/10/2025

Reviewed on 07/10/2025

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(Contd. of page 1)

Contaminated work clothing should not be allowed out of the workplace.

Wear protective gloves / 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.

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.

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

(Contd. on page 3)

CA

Safety Data Sheet

according to HPR, Schedule 1

Printing date 07/10/2025

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(Contd. of page 2)

CAS: 13463-67-7

Titandioxid

 Carcinogenicity – Category 2, H351

CAS: 2425-79-8

1,4-Bis(2,3-epoxypropoxy)butan

 Reproductive Toxicity - Category 1A, H360

 Serious Eye Damage - Category 1, H318

 Acute Toxicity (Oral) - Category 4, H302; Acute Toxicity (Inhalation) - Category 4, H332; Skin Irritation - Category 2, H315; Skin Sensitizer - Category 1, H317

· Additional information:

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.

· After skin contact:

Seek medical treatment in case of complaints.

· After eye contact:

Immediately wash with water and soap and rinse thoroughly.

· After swallowing:

Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.

· Information for doctor:

If symptoms persist consult 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.

6 Accidental release measures

· Personal precautions, protective equipment and emergency procedures

Wear protective clothing.

(Contd. on page 4)

Safety Data Sheet

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(Contd. of page 3)

- **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.

7 Handling and storage

- **Handling:**
- **Precautions for safe handling** Keep receptacles tightly sealed.
Ensure good ventilation/exhaustion at the workplace.
- **Information about protection against explosions and fires:** No special measures required.
- **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.
- **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.

CAS: 14808-60-7 Quarz

EL (Canada) TWA: 0.025 mg/m³
ACGIH A2; IARC 1

EV (Canada) TWA: 0.10* mg/m³
*respirable fraction

PEL (USA) TWA: 0.05* mg/m³
*resp. dust; 30mg/m³/%SiO₂+2

REL (USA) TWA: 0.05* mg/m³
*respirable dust; See Pocket Guide App. A

TLV (USA) TWA: 0.025* mg/m³
*respirable particulate matter, A2

CAS: 1309-37-1 Iron oxide

EL (Canada) STEL: 10** mg/m³
TWA: 5* 10*** 3**** mg/m³
*dust & fume**fume; Rouge: ***total dust****resp.

(Contd. on page 5)

Safety Data Sheet

according to HPR, Schedule 1

Printing date 07/10/2025

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(Contd. of page 4)

EV (Canada)	TWA: 5* 10** mg/m³ *respirable, including Rouge; **total dust
PEL (USA)	TWA: 10* mg/m³ *Fume
REL (USA)	TWA: 5 mg/m³ Dust & fume, as Fe
TLV (USA)	TWA: 5* mg/m³ *Respirable particulate matter, A4
CAS: 13463-67-7 Titandioxid	
EL (Canada)	TWA: 10* 3** mg/m³ IARC 2B, +total dust; **resp. fraction
EV (Canada)	TWA: 10 mg/m³ total dust
PEL (USA)	TWA: 15* mg/m³ *total dust
REL (USA)	See Pocket Guide App. A
TLV (USA)	TWA: 0.2* 2.5** mg/m³ 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.
 - 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 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 through time has to be found out by the manufacturer of the protective gloves and has to be observed.
- **Eye protection:** Safety glasses

(Contd. on page 6)

CA

Safety Data Sheet

according to HPR, Schedule 1

Printing date 07/10/2025

Reviewed on 07/10/2025

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· **Body protection:** Protective work clothing

(Contd. of page 5)

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
Boiling point/Boiling range:	>100 °C nicht anwendbar

· **Flash point:** >100 °C

· **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:** 13.5 hPa

· **Density at 20 °C:** 1.7 g/cm³

Bulk density:	1,400 kg/m ³
Relative density	Not determined.
Vapor density	Not applicable.
Evaporation rate	Not applicable.

· **Solubility in / Miscibility with**

Water:	not miscible
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· **Partition coefficient (n-octanol/water):** Not determined.

· **Viscosity:**

Dynamic at 20 °C:	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: 70.6-74.6 %

Volatile Organic Compounds	34.0 g/l 2.00 %
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· **Other information** The physical data are average values.

CA

(Contd. on page 7)

Safety Data Sheet

according to HPR, Schedule 1

Printing date 07/10/2025

Reviewed on 07/10/2025

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(Contd. of page 6)

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: 13463-67-7 Titandioxid
- | | | |
|------------|----------|---------------------|
| Oral | LD50 | >10,000 mg/kg (Rat) |
| Dermal | LD50 | >10,000 mg/kg (-) |
| Inhalative | LC50/4 h | >5 mg/l (-) |
- 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) |
- **Primary irritant effect:**
- **on the skin:** Irritant to skin and mucous membranes.
- **on the eye:** Irritating effect.
- **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
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CA

(Contd. on page 8)

Safety Data Sheet

according to HPR, Schedule 1

Printing date 07/10/2025

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(Contd. of page 7)

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

- **Uncleaned packagings:**

- **Recommendation:**

Disposal must be made according to official regulations.

14 Transport information

- **UN-Number**

- **DOT/TDG, ADR, IMDG, IATA**

UN3077

- **UN proper shipping name**

- **DOT/TDG**

Environmentally hazardous substance, solid, n.o.s.

- **ADR**

3077 Environmentally hazardous substance, solid, n.o.s.

- **IMDG, IATA**

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

(Contd. on page 9)

CA

Safety Data Sheet

according to HPR, Schedule 1

Printing date 07/10/2025

Reviewed on 07/10/2025

Trade name: Okapox Royal Komp. A colour sand grey, pergamon, safari sand, snow, Mochacino, Slate, Universalgrau, coffee, white, silver grey, jura, stone grey, shadow

(Contd. of page 8)

• **Transport hazard class(es)**

• **DOT/TDG, IMDG**



• **Class**

9 Miscellaneous dangerous substances and articles

• **Label**

9

• **ADR, IATA**



• **Class**

9 Miscellaneous dangerous substances and articles

• **Label**

9

• **Packing group**

• **DOT/TDG, 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):**

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.

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

Not applicable.

• **Transport/Additional information:**

• **ADR**

• **Excepted quantities (EQ)**

Code: E1

Maximum net quantity per inner packaging: 30 g

Maximum net quantity per outer packaging: 1000 g

• **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

CA

(Contd. on page 10)

Safety Data Sheet

according to HPR, Schedule 1

Printing date 07/10/2025

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(Contd. of page 9)

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: 13463-67-7	Titandioxid	ACTIVE
CAS: 2425-79-8	1,4-Bis(2,3-epoxypropoxy)butan	ACTIVE

• **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

• **Per- and polyfluoroalkyl substances (PFAS)**

None of the ingredients is listed.

- **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:**

4,4'-Methylen diphenyldiglycidylether
C12-C14 aliphatic glycidyl ethers
1,4-Bis(2,3-epoxypropoxy)butan
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 damage fertility or the unborn child.

• **Precautionary statements**

Keep out of reach of children.
Do not handle until all safety precautions have been read and understood.
Avoid breathing dust/fume/gas/mist/vapours/spray.
Wash thoroughly after handling.
Contaminated work clothing should not be allowed out of the workplace.
Wear protective gloves / 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.

(Contd. on page 11)

Safety Data Sheet

according to HPR, Schedule 1

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(Contd. of page 10)

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.

Store locked up.

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

· **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.

· **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 MSDS 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 MSDS 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.

· **Relevant phrases**

H302 Harmful if swallowed.

H315 Causes skin irritation.

H317 May cause an allergic skin reaction.

H318 Causes serious eye damage.

H319 Causes serious eye irritation.

H332 Harmful if inhaled.

H350 May cause cancer.

H351 Suspected of causing cancer.

H360 May damage fertility or the unborn child.

· **Contact:**

· **Date of the latest revision of the safety data sheet**

07/10/2025 / 78

· **Abbreviations and acronyms:**

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)

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

· *** Data compared to the previous version altered.**