

Safety data sheet

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

Printing date 06.02.2025

Version number 16 (replaces version 15)

Revision: 06.02.2025

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

1.1 Product identifier

Trade name **Okapox Royal Boden Komp. B**

UFI: **KS30-F04J-M00S-XER4**

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**

Technical function **Hardener**

Application of the substance / the mixture **Hardening agent/ Curing agent**

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
biuro@bautech.pl**

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

Resp. Sens. 1 **H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.**



GHS05 corrosion

Skin Corr. 1B **H314 Causes severe skin burns and eye damage.**

Eye Dam. 1 **H318 Causes serious eye damage.**



GHS09 environment

Aquatic Chronic 2 H411 Toxic to aquatic life with long lasting effects.

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GHS07
Acute Tox. 4
H302 Harmful if swallowed.
Skin Sens. 1
H317 May cause an allergic skin reaction.

· 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


GHS05 GHS07 GHS08 GHS09

· Signal word

Danger

· Hazard-determining

components of labelling:

Reaction product of dimeric fatty acids, C18-unsaturated, and polyethylene polyamine

3-aminomethyl-3,5,5-trimethylcyclohexylamine

N-(3-(trimethoxysilyl)propyl)ethylenediamine

3,6-diazaoctanethylenediamine

3,6,9-triazaundecamethylenediamine

3-aminopropyltriethoxysilane

2-[(3-aminopropyl)methylamino]ethanol

· Hazard statements

H302 Harmful if swallowed.
H314 Causes severe skin burns and eye damage.
H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.
H317 May cause an allergic skin reaction.
H411 Toxic to aquatic life with long lasting effects.

· Precautionary statements

P102 Keep out of reach of children.
P261 Avoid breathing dust/fume/gas/mist/vapours/spray.
P280 Wear protective gloves/protective clothing/eye protection/face protection/hearing protection.
P284 [In case of inadequate ventilation] wear respiratory protection.
P301+P330+P331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower].
P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

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P405

Store locked up.

P501

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

· **Additional information:** EUH205 Contains epoxy constituents. May produce an allergic reaction.

· **2.3 Other hazards**

· **Results of PBT and vPvB assessment**

· **PBT:** Not applicable.

· **vPvB:** Not applicable.

SECTION 3: Composition/information on ingredients

· **3.2 Mixtures**

· **Dangerous components:**

CAS: 68410-23-1	Reaction product of dimeric fatty acids, C18-unsaturated, and polyethylene polyamine  Eye Dam. 1, H318  Aquatic Chronic 2, H411  Skin Irrit. 2, H315; Skin Sens. 1, H317	≥25-≤100%
CAS: 2855-13-2	3-aminomethyl-3,5,5-trimethylcyclohexylamine  Skin Corr. 1B, H314; Eye Dam. 1, H318  Acute Tox. 4, H302; Acute Tox. 4, H332; Skin Sens. 1A, H317 ATE: LD50 oral: 1,030 mg/kg Specific concentration limit: Skin Sens. 1A; H317: C ≥ 0.001 %	≥5-<25%
CAS: 90640-67-8	Amines, polyethylenepoly-, triethylenetetramine fraction  Skin Corr. 1B, H314  Acute Tox. 4, H302; Acute Tox. 4, H312; Skin Sens. 1, H317 Aquatic Chronic 3, H412	≥5-<25%
CAS: 90640-66-7	Amines, polyethylenepoly-, tetraethylenepentamine fraction  Skin Corr. 1B, H314  Aquatic Chronic 2, H411  Acute Tox. 4, H302; Acute Tox. 4, H312; Skin Sens. 1, H317	≥5-<25%
CAS: 919-30-2	3-aminopropyltriethoxysilane  Skin Corr. 1B, H314; Eye Dam. 1, H318  Acute Tox. 4, H302; Skin Sens. 1, H317 Specific concentration limit: Skin Sens. 1B; H317: C ≥ 3 %	≥5-<10%
CAS: 1760-24-3	N-(3-(trimethoxysilyl)propyl)ethylenediamine  Resp. Sens. 1, H334  Skin Corr. 1B, H314; Eye Dam. 1, H318  Skin Sens. 1, H317; STOT SE 3, H335 Aquatic Chronic 3, H412	≥1-<2.5%
CAS: 41999-70-6	2-[(3-aminopropyl)methylamino]ethanol  Skin Corr. 1B, H314; Eye Dam. 1, H318  Acute Tox. 4, H302; Acute Tox. 4, H312; Skin Sens. 1, H317	≥1-<2.5%

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· 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

In case of respiratory or cardiac arrest: artificial respiration and cardiac pressure massage
 Personal protection for the First Aider.
 Immediately remove contaminated clothing.
 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.

· After skin contact

Seek medical treatment in case of complaints.

· After eye contact

Instantly wash with water and soap and rinse thoroughly.
 Rinse opened eye for several minutes under running water.
 Then consult doctor.

· After swallowing

Rinse out mouth, do not induce vomiting, seek medical help immediately.
 Do not administer home remedies (milk, alcohol, oil, etc.).
 Show the package or label to the doctor in charge.
 Instantly call for doctor.
 Drink copious amounts of water and provide fresh air.
 Instantly call for 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.

· For safety reasons unsuitable extinguishing agents

Water with a full water jet.

· 5.2 Special hazards arising from the substance or mixture

Formation of poisonous gases during heating or in fires.
 No further relevant information available.

· 5.3 Advice for firefighters

· Protective equipment:

Wear non-circulation breathing equipment and chemical-protective clothing. Do not inhale explosion gases or fire fumes.

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SECTION 6: Accidental release measures

- **6.1 Personal precautions, protective equipment and emergency procedures** *Wear protective clothing.*
- **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:** *Take-up with liquid binding material (sand, diatomaceous earth, acid binding agent, universal binding agent).
Use neutralising agent.
Dispose of contaminated material as waste according to item 13.*
- **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 information on disposal.*

SECTION 7: Handling and storage

- **7.1 Precautions for safe handling** *Fumes / aerosols not breathe. Avoid contact with eyes and skin.
Keep container tightly sealed.
Do not leave the container standing open.
Ensure good ventilation/exhaustion at the workplace.
Prevent formation of aerosols.*
- **Information about protection against explosions and fires:** *No special measures required.*
- **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 metals.
Keep container in a cool, well-ventilated place. Avoid strong sunlight.*
- **Further information about storage conditions:** *Keep away from food, drink and animal feed.
Keep container tightly sealed.*
- **Storage class** *8 B*
- **7.3 Specific end use(s)** *No further relevant information available.*

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SECTION 8: Exposure controls/personal protection

- 8.1 Control parameters
- Components with critical values that require monitoring at the workplace:

· DNELs

CAS: 919-30-2 3-aminopropyltriethoxysilane

Dermal	Long-term value	8.3 mg/kg/d (Worker)
	Short-term value	8.3 mg/kg/d (Worker)
Inhalative	Long-term value	59 mg/m ³ (Worker)
	Short-term value	59 mg/m ³ (Worker)

· PNECs

CAS: 919-30-2 3-aminopropyltriethoxysilane

Freshwater	0.33 mg/l (-)
Salt water	0.033 mg/l (-)

- 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.

- 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.
 Avoid contact with the eyes.
 Avoid contact with the eyes and skin.

- Breathing equipment:

Filter A/P2.
 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.

- Hand protection

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
 Recommended hand protection brands DIN EN 374
 Fluorocarbon rubber (Viton)

- Material of 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.

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· Eye/face protection

Tightly sealed safety glasses.

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SECTION 9: Physical and chemical properties

· 9.1 Information on basic physical and chemical properties

· Physical state	Liquid
· Colour:	Yellowish
· Smell:	Characteristic
· Odour threshold:	Not determined.
· Melting point/freezing point:	Not determined
· Boiling point or initial boiling point and boiling range	>200 °C
· Flammability	Not applicable.
· Lower and upper explosion limit	
· Lower:	Not determined.
· Upper:	Not determined.
· Flash point:	93 °C (geschlossener Tiegel)
· Auto-ignition temperature:	300 °C
· Decomposition temperature:	Not determined.
· pH	Mixture is non-soluble (in water).
· Viscosity:	
· Kinematic viscosity	Not determined.
· dynamic at 20 °C:	500 mPas
· Solubility	
· Water:	less miscible
· Partition coefficient n-octanol/water (log value)	Not determined.
· Steam pressure at 20 °C:	<1 hPa
· Density and/or relative density	
· Density	1,135 g/cm ³
· Relative density	Not determined.
· Vapour density	Not determined.

· 9.2 Other information

· Appearance:	
· Form:	Fluid
· Self-flammability:	Product is not selfigniting.
· Explosive properties:	Product is not explosive.
· Solvent content:	
· Solids content:	0.0 %
· Volatile Organic Compounds	0.0 g/l 0.00 %
· Change in condition	
· Evaporation rate	Not determined.

· Information with regard to physical hazard classes

· Explosives	Void
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· 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
· 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	Harmful if swallowed.

· LD/LC50 values that are relevant for classification:

CAS: 2855-13-2 3-aminomethyl-3,5,5-trimethylcyclohexylamine

Oral	LD50	1,030 mg/kg (ATE)
		1,030 mg/kg (Rat)

Inhalative LC50/4 h >5.01 mg/l (Rat)

CAS: 90640-67-8 Amines, polyethylenepoly-, triethylenetetramine fraction

Oral	LD50	1,600 mg/kg (Rat)
Dermal	LD50	1,472 mg/kg (Rabbit)

CAS: 90640-66-7 Amines, polyethylenepoly-, tetraethylenepentamine fraction

Oral	LD50	3,221 mg/kg (Rat)
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Dermal	LD50	1,260 mg/kg (Rabbit)
CAS: 919-30-2 3-aminopropyltriethoxysilane		
Oral	LD50	1,476 mg/kg (Ratte, weiblich) 2,698 mg/kg (Rat)
Dermal	LD50	4,033 mg/kg (Rabbit)
CAS: 41999-70-6 2-[(3-aminopropyl)methylamino]ethanol		
Oral	LD50	200-500 mg/kg (Rat)
Dermal	LD50	1,000-2,000 mg/kg (Rabbit)

- **Primary irritant effect:**
- **Skin corrosion/irritation** Causes severe skin burns and eye damage.
- **Serious eye damage/irritation** Causes serious eye damage.
- **Respiratory or skin sensitisation** May cause allergy or asthma symptoms or breathing difficulties if inhaled.
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** 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.
- **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: 2855-13-2 3-aminomethyl-3,5,5-trimethylcyclohexylamine

Oral	EbC50 (72h)	37 mg/l (Alge <i>Scenedesmus</i> sp)
	LC 50 (96h)	110 mg/l (Goldorfe (<i>Leuciscus idus</i>))
	EC50 (48h)	23 mg/l ((Wasserfloh (<i>Daphnia magna</i>)))
	EC10 (18h)	1,120 mg/l (Bakterien)

CAS: 919-30-2 3-aminopropyltriethoxysilane

	LC 50 (96h)	>934 mg/l (Danio rerio (Zebraabärbling)) (OECD Richtlinie 203)
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CAS: 41999-70-6 2-[(3-aminopropyl)methylamino]ethanol

	LC 50 (96h)	315.7 mg/l (Fisch)
	EC50 (48h)	145 mg/l (Dap)

- **12.2 Persistence and degradability** No further relevant information available.
- **12.3 Bioaccumulative potential** No further relevant information available.

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- 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: Toxic for 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. Must not reach sewage water or drainage ditch undiluted or unneutralised. Danger to drinking water if even small quantities leak into soil. Also poisonous for fish and plankton in water bodies. Toxic for aquatic organisms

SECTION 13: Disposal considerations

- 13.1 Waste treatment methods
- Recommendation Disposal according to official regulations
- 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 UN2735
- 14.2 UN proper shipping name
- ADR 2735 AMINES, LIQUID, CORROSIVE, N.O.S. (TRIETHYLENETETRAMINE, 3-aminopropyltriethoxysilane), ENVIRONMENTALLY HAZARDOUS
- IMDG AMINES, LIQUID, CORROSIVE, N.O.S. (TRIETHYLENETETRAMINE, 3-aminopropyltriethoxysilane), MARINE POLLUTANT
- IATA AMINES, LIQUID, CORROSIVE, N.O.S. (TRIETHYLENETETRAMINE, 3-aminopropyltriethoxysilane)

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· 14.3 Transport hazard class(es)

· ADR, IMDG



· Class

8 Corrosive substances.

· Label

8

· IATA



· Class

8 Corrosive substances.

· Label

8

· 14.4 Packing group

· ADR, IMDG, IATA

II

· 14.5 Environmental hazards:

Product contains environmentally hazardous substances: Reaction product of dimeric fatty acids, C18-unsaturated, and polyethylene polyamine

· Marine pollutant:

Symbol (fish and tree)

· Special marking (ADR):

Symbol (fish and tree)

· 14.6 Special precautions for user

Warning: Corrosive substances.

· Kemler Number:

80

· EMS Number:

F-A,S-B

· Segregation groups

(SGG18) Alkalies

· Stowage Category

A

· 14.7 Maritime transport in bulk according to IMO instruments

Not applicable.

· Transport/Additional information:

· ADR

· Limited quantities (LQ)

1L

· Excepted quantities (EQ)

Code: E2

Maximum net quantity per inner packaging: 30 ml

Maximum net quantity per outer packaging: 500 ml

· Transport category

2

· Tunnel restriction code

E

· IMDG

· Limited quantities (LQ)

1L

· Excepted quantities (EQ)

Code: E2

Maximum net quantity per inner packaging: 30 ml

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·	Maximum net quantity per outer packaging: 500 ml
· UN "Model Regulation":	UN 2735 AMINES, LIQUID, CORROSIVE, N.O.S. (TRIETHYLENETETRAMINE, 3-AMINOPROPYLTRIETHOXYSILANE), 8, II, ENVIRONMENTALLY HAZARDOUS

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

· Seveso category

E2 Hazardous to the Aquatic Environment

· Qualifying quantity (tonnes) for the application of lower-tier requirements

200 t

· Qualifying quantity (tonnes) for the application of upper-tier requirements

500 t

· REGULATION (EC) No 1907/2006 ANNEX XVII

Conditions of restriction: 3

· 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.

· 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.

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· 15.2 Chemical safety
assessment:

A Chemical Safety Assessment has not been carried out.

SECTION 16: Other information

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

· Date of previous version: 03.02.2025

· Version number of previous
version:

15

· 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)
PNEC: Predicted No-Effect Concentration (REACH)
LC50: Lethal concentration, 50 percent
LD50: Lethal dose, 50 percent
PBT: Persistent, Bioaccumulative and Toxic
vPvB: very Persistent and very Bioaccumulative
ATE: Acute toxicity estimate values
Acute Tox. 4: Acute toxicity – Category 4
Skin Corr. 1B: Skin corrosion/irritation – Category 1B
Skin Irrit. 2: Skin corrosion/irritation – Category 2
Eye Dam. 1: Serious eye damage/eye irritation – Category 1
Resp. Sens. 1: Respiratory sensitisation – Category 1
Skin Sens. 1: Skin sensitisation – Category 1
Skin Sens. 1A: Skin sensitisation – Category 1A
STOT SE 3: Specific target organ toxicity (single exposure) – Category 3
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.