



Safety data sheet

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

Printing date 26.02.2025

Version number 2 (replaces version 1)

Revision: 26.02.2025

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

· 1.1 Product identifier

· Trade name

Okapox GF Komp. B

· UFI:

Y472-M0DN-Q00D-A767

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

· Sector of Use

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

· 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

· 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



GHS05 corrosion

Skin Corr. 1B

H314 Causes severe skin burns and eye damage.



GHS07

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.

· 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

(Contd. on page 2)



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Version number 2 (replaces version 1)

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Trade name Okapox GF Komp. B

(Contd. of page 1)

- **Signal word** **Danger**
- **Hazard-determining components of labelling:** **Polyoxypropylendiamin**
3-aminomethyl-3,5,5-trimethylcyclohexylamine
1,3-Benzoldimethanamin
Reaction mass of (1-phenylethyl)phenols and bis-(1-phenylethyl)phenols
- **Hazard statements** **H314 Causes severe skin burns and eye damage.**
H319 Causes serious eye irritation.
H317 May cause an allergic skin reaction.
H412 Harmful to aquatic life with long lasting effects.
- **Precautionary statements** **P102 Keep out of reach of children.**
P260 Do not breathe dusts or mists.
P280 Wear protective gloves / eye protection / face protection.
P302+P352 IF ON SKIN: Wash with plenty of water.
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.
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: 9046-10-0	Polyoxypropylendiamin	≥25-≤100%
	 Skin Corr. 1C, H314	
	Aquatic Chronic 3, H412	

(Contd. on page 3)



Safety data sheet

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Version number 2 (replaces version 1)

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Trade name Okapox GF Komp. B

(Contd. of page 2)

CAS: 1477-55-0	1,3-Benzoldimethanamin Acute Tox. 3, H331 Skin Corr. 1B, H314 Acute Tox. 4, H302; Skin Sens. 1, H317 Aquatic Chronic 3, H412	≥10-<25%
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 %	≥10-<50%
	Reaction mass of (1-phenylethyl)phenols and bis-(1-phenylethyl)phenols Aquatic Chronic 2, H411 Skin Irrit. 2, H315; Skin Sens. 1A, H317	≥10-<25%

· 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

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.
Seek medical treatment in case of complaints.

· After skin contact

Instantly wash with water and soap and rinse thoroughly.

· After eye contact

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

· After swallowing

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.

Use fire fighting measures that suit the environment.

(Contd. on page 4)

Safety data sheet

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Printing date 26.02.2025

Version number 2 (replaces version 1)

Revision: 26.02.2025

Trade name Okapox GF Komp. B

(Contd. of page 3)

- **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.*

SECTION 6: Accidental release measures

- **6.1 Personal precautions, protective equipment and emergency procedures** *Put on breathing apparatus.*
- **6.2 Environmental precautions:** *Inform respective authorities in case product reaches water or sewage system. Dilute with much water.*
- **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** *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:** *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:** *Not required.*

(Contd. on page 5)

Safety data sheet

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Printing date 26.02.2025

Version number 2 (replaces version 1)

Revision: 26.02.2025

Trade name Okapox GF Komp. B

(Contd. of page 4)

- Further information about storage conditions: *Keep container tightly sealed.*
- Storage class *8 A*
- 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:
- 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: *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*
- 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.*

SECTION 9: Physical and chemical properties

- 9.1 Information on basic physical and chemical properties
- Physical state *Liquid*
- Colour: *pale yellow*
- Smell: *Amine-like*
- Odour threshold: *Not determined.*
- Melting point/freezing point: *Not determined*
- Boiling point or initial boiling point and boiling range *260 °C*
- Flammability *Not applicable.*

(Contd. on page 6)



Safety data sheet

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Printing date 26.02.2025

Version number 2 (replaces version 1)

Revision: 26.02.2025

Trade name Okapox GF Komp. B

(Contd. of page 5)

· Lower and upper explosion limit	
· Lower:	Not determined.
· Upper:	Not determined.
· Flash point:	110 °C
· Auto-ignition temperature:	230 °C
· Decomposition temperature:	Not determined.
· pH	Mixture is non-soluble (in water).
· Viscosity:	
· Kinematic viscosity	Not determined.
· dynamic at 20 °C:	100-200 mPas
· Solubility	
· Water:	Fully miscible
· Partition coefficient n-octanol/water (log value)	Not determined.
· Steam pressure at 25 °C:	~ 0 hPa (CAS: 1477-55-0 1,3-Benzoldimethanamin)
· Density and/or relative density	
· Density at 20 °C	1.02 g/cm³
· Relative density	Not determined.
· Vapour density	Not determined.

· 9.2 Other information

· Appearance:	
· Form:	Fluid
· Self-inflammability:	Product is not selfigniting.
· Explosive properties:	Product is not explosive.
· Solvent content:	
· Solids content:	10-<25 %
· 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
· 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

(Contd. on page 7)

Safety data sheet

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

Printing date 26.02.2025

Version number 2 (replaces version 1)

Revision: 26.02.2025

Trade name Okapox GF Komp. B

(Contd. of page 6)

· 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: 1477-55-0 1,3-Benzoldimethanamin

Oral	LD50	1,180 mg/kg (mouse) 2,000 mg/kg (Rabbit) 980 mg/kg (Rat)
Dermal	LD50	>3,100 mg/kg (Rat) Symptome: Bei dieser Konzentration ist es nicht zu Todesfällen gekommen. Bewertung: Der Stoff oder das Gemisch besitzt keine akute dermale Toxizität
Inhalative	LC50/4 h	2.4 mg/l (Ratte, weiblich) 1.34 mg/l (Rat)

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)

- Primary irritant effect: Causes severe skin burns and eye damage.
- Skin corrosion/irritation Causes serious eye irritation.
- Serious eye damage/irritation
- Respiratory or skin sensitisation 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.

(Contd. on page 8)

Safety data sheet

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

Printing date 26.02.2025

Version number 2 (replaces version 1)

Revision: 26.02.2025

Trade name Okapox GF Komp. B

(Contd. of page 7)

- 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: 9046-10-0 Polyoxypropylendiamin

LC 50 (96h)	>220 mg/l (Goldorfe (Leuciscus idus))
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CAS: 1477-55-0 1,3-Benzoldimethanamin

LC 50 (96h)	75 mg/l (Goldorfe (Leuciscus idus))
EC50 (48h) (static)	48 mg/l ((Wasserfloh (Daphnia magna)))
EC50 (72h)	12 mg/l (Alge Scenedesmus sp)

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

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

· 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. Must not reach sewage water or drainage ditch undiluted or unneutralised. Danger to drinking water if even small quantities leak into soil.

(Contd. on page 9)



Safety data sheet

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

Printing date 26.02.2025

Version number 2 (replaces version 1)

Revision: 26.02.2025

Trade name Okapox GF Komp. B

Harmful to aquatic organisms

(Contd. of page 8)

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.
- Recommended cleaning agent: Water, if necessary with cleaning agent.

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.
(Polyoxypropylendiamin, m-phenylenebis(methylamine))
- IMDG, IATA AMINES, LIQUID, CORROSIVE, N.O.S.
(Polyoxypropylendiamin, m-phenylenebis(methylamine))
- 14.3 Transport hazard class(es)
- ADR, IMDG, IATA
- 
- Class 8 Corrosive substances.
- Label 8
- 14.4 Packing group
- ADR, IMDG, IATA II
- 14.5 Environmental hazards: Not applicable.
- 14.6 Special precautions for user
- Warning: Corrosive substances.
- Kemler Number: 86
- EMS Number: F-A, S-B
- Segregation groups (SGG18) Alkalis
- Stowage Category B
- Stowage Code SW2 Clear of living quarters.
- 14.7 Maritime transport in bulk according to IMO instruments
- Not applicable.

(Contd. on page 10)

Safety data sheet

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

Printing date 26.02.2025

Version number 2 (replaces version 1)

Revision: 26.02.2025

Trade name Okapox GF Komp. B

(Contd. of page 9)

• Transport/Additional information:

• ADR

- Limited quantities (LQ)
- Excepted quantities (EQ)

1L

Code: E2

Maximum net quantity per inner packaging: 30 ml

Maximum net quantity per outer packaging: 500 ml

- Transport category
- Tunnel restriction code

2

E

• IMDG

- Limited quantities (LQ)
- Excepted quantities (EQ)

1L

Code: E2

Maximum net quantity per inner packaging: 30 ml

Maximum net quantity per outer packaging: 500 ml

• UN "Model Regulation":

 UN 2735 AMINES, LIQUID, CORROSIVE, N.O.S.
 (POLYOXYPROPYLENEDIAMIN, M-PHENYLENEBIS(METHYLAMINE)), 8, II

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

• 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.

(Contd. on page 11)

EU



Safety data sheet

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

Printing date 26.02.2025

Version number 2 (replaces version 1)

Revision: 26.02.2025

Trade name Okapox GF Komp. B

(Contd. of page 10)

· 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

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: 01.02.2024

· Version number of previous version: 1

· 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)
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
Acute Tox. 3: Acute toxicity – Category 3
Skin Corr. 1B: Skin corrosion/irritation – Category 1B
Skin Corr. 1C: Skin corrosion/irritation – Category 1C
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
Skin Sens. 1A: Skin sensitisation – Category 1A
Aquatic Chronic 2: Hazardous to the aquatic environment - long-term aquatic hazard – Category 2

(Contd. on page 12)



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

Printing date 26.02.2025

Version number 2 (replaces version 1)

Revision: 26.02.2025

Trade name Okapox GF Komp. B

(Contd. of page 11)

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.

EU