

Safety Data Sheet according to HPR, Schedule 1

Date of issue 10/05/2026

Version number 3

Revision: 10/05/2026

1 Identification

- **Product identifier**
- **Trade name:** Okapox GF Komp. B
- **Other means of identification**
- **Application of the substance / the mixture** **Hardening agent/ Curing agent**
- **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@cemex.com
info.usa@cemex.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**



GHS05 Corrosion

Skin Corrosion - Category 1B **H314 Causes severe skin burns and eye damage.**
Eye damage/irritation – Category 1 **H318 Causes serious eye damage.**



GHS07

Sensitization - skin – Category 1 **H317 May cause an allergic skin reaction.**

- **Additional information:** **The full text of the classification and labeling elements mentioned is given in Section 16.**

- **Label elements**

- **GHS label elements**

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

- **Hazard pictograms**



GHS05 GHS07

- **Signal word**

Danger

- **Hazard-determining components of labeling:**

Polyoxypropylendiamin
3-Aminomethyl-3,5,5-trimethyl-cyclohexylamin
1,3-Benzoldimethanamin
Reaction mass of (1-phenylethyl)phenols and bis-(1-phenylethyl)phenols

- **Hazard statements**

Causes severe skin burns and eye damage.
May cause an allergic skin reaction.

- **Precautionary statements**

Keep out of reach of children.
Do not breathe dust or mists.
Wash thoroughly after handling.

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

Wear protective gloves / eye protection / face protection.

Wear protective gloves/protective clothing/eye protection/face protection.

IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.

IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower].

IF INHALED: Remove person to fresh air and keep comfortable for breathing.

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

Immediately call a POISON CENTER/doctor.

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.

Wash contaminated clothing before reuse.

Store locked up.

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

· Information pertaining to particular dangers for man and environment:

· Classification system:

· NFPA ratings (scale 0 - 4)



Health = 3

Fire = 1

Reactivity = 0

· HMIS-ratings (scale 0 - 4)



Health = *3

Fire = 1

Reactivity = 0

3 Composition/Information on ingredients

· Composition/Information on ingredients

· Chemical characterization: Mixtures

· Dangerous components:

CAS: 9046-10-0	Polyoxypropylendiamin	≥15-≤60% w/w *
	⚠ Skin Corrosion - Category 1C, H314; Eye damage/irritation – Category 1, H318	
CAS: 1477-55-0	1,3-Benzoldimethanamin	≥10-≤30% w/w *
	⚠ Acute Toxicity (Inhalation) - Category 3, H331	
	⚠ Skin Corrosion - Category 1B, H314	
	⚠ Acute Toxicity (Oral) - Category 4, H302; Sensitization - skin – Category 1, H317	
CAS: 2855-13-2	3-Aminomethyl-3,5,5-trimethyl-cyclohexylamin	≥10-≤30% w/w *
	⚠ Skin Corrosion - Category 1B, H314; Eye damage/irritation – Category 1, H318	
	⚠ Acute Toxicity (Oral) - Category 4, H302; Acute Toxicity (Inhalation) - Category 4, H332; Sensitization - skin – Category 1A, H317	

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	Reaction mass of (1-phenylethyl)phenols and bis-(1-phenylethyl)phenols ⚠ Skin Irritation - Category 2, H315; Sensitization - skin – Category 1A, H317	(Contd. of page 2) ≥10-≤30% w/w *
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· Additional information:

* Actual concentration ranges are withheld as a trade secret.
 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.
 Rinse opened eye for several minutes under running water.
 Then consult a doctor.

· After swallowing:

Drink copious amounts of water and provide fresh air.
 Immediately call a 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

During heating or in case of fire poisonous gases are produced.

No further relevant information available.

· 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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6 Accidental release measures

- **Personal precautions, protective equipment and emergency procedures** **Mount respiratory protective device.**
- **Environmental precautions:** **Dilute with plenty of water.**
- **Methods and material for containment and cleaning up:** **Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
Use neutralizing agent.
Dispose contaminated material as waste according to section 13.**
- **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

- **Precautions for safe handling** **Keep receptacles tightly sealed.
Ensure good ventilation/exhaustion at the workplace.
Prevent formation of aerosols.**
- **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.**
- **Information about storage in one common storage facility:** **Not required**
- **Further information about storage conditions:** **Keep receptacle tightly sealed.**
- **Specific end use(s)** **No further relevant information available.**

8 Exposure controls/ Personal protection

- **Control parameters**
- **Components with limit values that require monitoring at the workplace:**

CAS: 1477-55-0 1,3-Benzoldimethanamin

EL (Canada)	Ceiling: 0.1 mg/m³ Skin
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EV (Canada)	Ceiling: 0.1 mg/m³ Skin
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REL (USA)	Ceiling: 0.1 mg/m³ Skin
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TLV (USA)	Ceiling: 0.018 ppm Skin
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- **Additional information:** *The lists that were valid during the creation were used as basis.*
- **Exposure controls**
- **Appropriate engineering controls** *No further data; see section 7.*
- **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.
Avoid contact with the eyes and skin.*
- **Breathing equipment:** *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.*
- **Protection of hands:** *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 trough time has to be found out by the manufacturer of the protective gloves and has to be observed.*
- **Eye protection:** *Tightly sealed goggles.*

9 Physical and chemical properties

- **Information on basic physical and chemical properties**
- **Physical state** *Liquid*
- **Color:** *pale yellow*
- **Odor:** *Amine-like*
- **Odor threshold:** *Not determined*
- **Melting point/Melting range:** *undetermined*
- **Boiling point/Boiling range:** *260 °C*
- **Flammability:** *Not applicable*
- **Explosion limits:**
- **Lower:** *Not determined*
- **Upper:** *Not determined*
- **Flash point:** *110 °C*
- **Auto igniting:** *230 °C*
- **Decomposition temperature:** *Not determined*
- **pH-value:** *Mixture is non-soluble (in water).*
- **Viscosity:**
- **Kinematic:** *Not determined*
- **Dynamic at 20 °C:** *100-200 mPas*
- **Solubility in / Miscibility with**
- **Water:** *Fully miscible.*
- **Partition coefficient (n-octanol/water):** *Not determined*

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· Vapor pressure at 25 °C:	~0 hPa
· Vapor pressure:	
· Density at 20 °C:	1.02 g/cm ³
· Relative density	Not determined
· Vapor density	Not determined
· Particle characteristics	Not applicable
· Other information	
· Appearance:	
· Form:	Fluid
· AUTO IGNITION:	Not self igniting
· Danger of explosion:	Product does not present an explosion hazard.
· Solvent content:	
· VOC-Content	0.00 %
	0.0 g/l / 0.00 lb/gal
· Solids content:	10-<25 %
· Volatile Organic Compounds	0.0 g/l
	0.00 %
· Change in condition	
· Evaporation rate	Not determined

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: 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)

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		1.34 mg/l (Rat)
CAS: 2855-13-2 3-Aminomethyl-3,5,5-trimethyl-cyclohexylamin		
Oral	LD50	1,030 mg/kg (ATE)
		1,030 mg/kg (Rat)
Inhalative	LC50/4 h	>5.01 mg/l (Rat)

· **Primary irritant effect:**

· on the skin:

Caustic effect on skin and mucous membranes.

· on the eye:

Strong caustic effect.

Strong irritant with the danger of severe eye injury.

· **Sensitization:**

Sensitization possible through skin contact.

· **Additional toxicological information:**

The product shows the following dangers according to internally approved calculation methods for preparations:

Corrosive

Irritant

Swallowing will lead to a strong caustic effect on mouth and throat and to the danger of perforation of esophagus and stomach.

· **Carcinogenic categories**

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

None of the ingredients is listed.

· **NTP (National Toxicology Program)**

None of the ingredients is listed.

12 Ecological information

· **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-trimethyl-cyclohexylamin

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)

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

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

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

· **Results of PBT and vPvB assessment**

· **PBT:** Not applicable

· **vPvB:** Not applicable

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- Other adverse effects
- 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.
Must not reach bodies of water or drainage ditch undiluted or unneutralized.
Danger to drinking water if even small quantities leak into the ground.

13 Disposal considerations

- Waste treatment methods
- Recommendation:
- Uncleaned packagings:
- Recommendation:
- Recommended cleansing agent:

Disposal in accordance with official regulations

Disposal must be made according to official regulations.

Water, if necessary with cleansing agents.

14 Transport information

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

UN2735

- UN proper shipping name
- DOT/TDG

Amines, liquid, corrosive, n.o.s.
(Polyoxypropylendiamin, 1,3-Benzoldimethanamin)

- ADR

2735 Amines, liquid, corrosive, n.o.s.
(Polyoxypropylendiamin, 1,3-Benzoldimethanamin)

- IMDG, IATA

AMINES, LIQUID, CORROSIVE, N.O.S. (α-(2-aminomethylethyl)-ω-(2-aminomethylethoxy) poly[oxy(methyl-1,2-ethanediy)], m-phenylenebis(methylamine))

- Transport hazard class(es)
- DOT/TDG (Transport dangerous goods):



- Class
- Label

8 Corrosive substances
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- ADR, IMDG, IATA



- Class
- Label

8 Corrosive substances
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· Packing group	II
· DOT/TDG, ADR, IMDG, IATA	II
· Environmental hazards:	Not applicable
· Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code	Not applicable
· Transport/Additional information:	
· ADR	
· Excepted quantities (EQ)	Code: E2 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 500 ml
· IMDG	
· 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
· Special precautions for user	Warning: Corrosive substances
· Hazard identification number (Kemler code):	86
· EMS Number:	F-A,S-B
· Segregation groups	(SGG18) Alkalis
· Stowage Category	B
· Stowage Code	SW2 Clear of living quarters.
· UN "Model Regulation":	UN 2735 AMINES, LIQUID, CORROSIVE, N.O.S. (POLYOXYPROPYLENDIAMIN, 1,3-BENZOLDIMETHANAMIN), 8, II

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: 9046-10-0	Polyoxypropylendiamin	ACTIVE
CAS: 1477-55-0	1,3-Benzoldimethanamin	ACTIVE
CAS: 2855-13-2	3-Aminomethyl-3,5,5-trimethyl-cyclohexylamin	ACTIVE

· MAK (German Maximum Workplace Concentration)

None of the ingredients is listed.

· Per- and polyfluoroalkyl substances (PFAS)

None of the ingredients is listed.

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· GHS label elements

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

· Hazard pictograms



GHS05 GHS07

· Signal word

Danger

· Hazard-determining components of labeling:

Polyoxypropylendiamin
3-Aminomethyl-3,5,5-trimethyl-cyclohexylamin
1,3-Benzoldimethanamin
Reaction mass of (1-phenylethyl)phenols and bis-(1-phenylethyl)phenols

· Hazard statements

Causes severe skin burns and eye damage.
May cause an allergic skin reaction.

· Precautionary statements

Keep out of reach of children.
Do not breathe dust or mists.
Wash thoroughly after handling.
Contaminated work clothing should not be allowed out of the workplace.
Wear protective gloves / eye protection / face protection.
Wear protective gloves/protective clothing/eye protection/face protection.
IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower].
IF INHALED: Remove person to fresh air and keep comfortable for breathing.
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
Immediately call a POISON CENTER/doctor.
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.
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:

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

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.

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· **Relevant phrases**

H302 Harmful if swallowed.
H314 Causes severe skin burns and eye damage.
H315 Causes skin irritation.
H317 May cause an allergic skin reaction.
H318 Causes serious eye damage.
H331 Toxic if inhaled.
H332 Harmful if inhaled.

· **Date of previous version**

10/05/2026

· **Version number of previous version:**

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· **Date of preparation**

10/05/2026

· **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.**

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