



Safety Data Sheet
according to WHS Regulations

Printing date 12.07.2018

Version number 16

Revision: 12.07.2018

Hazardous according to criteria of Australian Safety and Compensation Council.

1 Identification

- **Product identifier**
- **Trade name** Okapox GF Komp. B
- **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)**
- **Application of the substance / the mixture** **Hardening agent/ Curing agent**
- **Details of the supplier of the safety data sheet**
- **Manufacturer/Supplier:** **Polyflor Australia**
101 Prosperity Way,
Dandenong South VIC 3175

Orders & Enquiries T | 1800 777 425

E | technical@polyflor.com.au
- **Informing department:** **Laboratory, departments of enviromental protection and labor protection**
- **Emergency telephone number:** **Poison Information Center Freiburg Tel.: +49(0)761/ 19240 (24h German and English)**

2 Hazard(s) Identification

- **Classification of the substance or mixture**



corrosion

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

Eye Dam. 1 H318 Causes serious eye damage.



Acute Tox. 4 H302 Harmful if swallowed.

Acute Tox. 4 H312 Harmful in contact with skin.

Acute Tox. 4 H332 Harmful if inhaled.

Skin Sens. 1 H317 May cause an allergic skin reaction.

- **Label elements**

- **GHS label elements**

The product is classified and labelled according to the Globally Harmonised System (GHS).

- **Hazard pictograms**



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<ul style="list-style-type: none"> · Signal word · Hazard-determining components of labelling: · Hazard statements · Precautionary statements · Additional information: · Other hazards · Results of PBT and vPvB assessment · PBT: · vPvB: 	<p>Danger</p> <p>3-aminomethyl-3,5,5-trimethylcyclohexylamine Polyoxypropylendiamin 2-piperazin-1-ylethylamine 1,3-Benzoldimethanamin phenol, styrenated 3-aminopropyltriethoxysilane</p> <p>Harmful if swallowed. Harmful in contact with skin. Harmful if inhaled. Causes severe skin burns and eye damage. May cause an allergic skin reaction.</p> <p>If medical advice is needed, have product container or label at hand. Read label before use. Do not breathe dusts or mists. Wash thoroughly after handling. Do not eat, drink or smoke when using this product. Use only outdoors or in a well-ventilated area. Contaminated work clothing should not be allowed out of the workplace. Wear protective gloves/protective clothing/eye protection/face protection. IF SWALLOWED: Call a POISON CENTER/doctor if you feel unwell. IF SWALLOWED: rinse mouth. Do NOT induce vomiting. IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/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. Restricted to professional users</p> <p>Not applicable.</p> <p>Not applicable.</p>
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3 Composition and Information on Ingredients

· Chemical characterisation: Mixtures

· Dangerous components:

CAS: 61788-44-1	phenol, styrenated ⚠ Skin Irrit. 2, H315; Eye Irrit. 2A, H319; Skin Sens. 1A, H317	25-<50%
CAS: 9046-10-0	Polyoxypropylendiamin ⚠ Skin Corr. 1B, H314; Eye Dam. 1, H318	10-<25%
CAS: 2855-13-2	3-aminomethyl-3,5,5-trimethylcyclohexylamine ⚠ Skin Corr. 1B, H314 ⚠ Acute Tox. 4, H302; Acute Tox. 4, H312; Acute Tox. 4, H332; Skin Sens. 1, H317	10-<25%
CAS: 1477-55-0	1,3-Benzoldimethanamin ⚠ Skin Corr. 1B, H314; Eye Dam. 1, H318 ⚠ Acute Tox. 4, H302; Acute Tox. 4, H332; Skin Sens. 1, H317	2.5-<10%
CAS: 140-31-8	2-piperazin-1-ylethylamine ⚠ Acute Tox. 3, H311 ⚠ Skin Corr. 1B, H314 ⚠ Acute Tox. 4, H302; Skin Sens. 1, H317 Flam. Liq. 4, H227	2.5-<10%
CAS: 90-72-2	2,4,6-tris(dimethylaminomethyl)phenol ⚠ Acute Tox. 4, H302; Acute Tox. 4, H312; Skin Irrit. 2, H315; Eye Irrit. 2A, H319	2.5-<10%
CAS: 9046-10-0	Polypropylenglykol-bis(aminopropyl)ether ⚠ Skin Corr. 1B, H314; Eye Dam. 1, H318 ⚠ Acute Tox. 4, H302; Acute Tox. 4, H312	2.5-<10%
CAS: 2579-20-6	1,3-Cyclohexanedimethanamine ⚠ Acute Tox. 4, H302	<2.5%
CAS: 919-30-2	3-aminopropyltriethoxysilane ⚠ Skin Corr. 1B, H314 ⚠ Acute Tox. 4, H302; Skin Sens. 1, H317 Flam. Liq. 4, H227	<2.5%

· 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

**Personal protection for the First Aider.
Immediately remove contaminated clothing.**

· After inhalation

**Provide plenty of fresh air.
In case of unconsciousness bring patient into stable side position for transport.**

· After skin contact

Instantly wash with water and soap and rinse thoroughly.

· After eye contact

**Rinse opened eye for several minutes under running water.
Then consult doctor.**

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- **After swallowing** **Instantly call for doctor.**
Drink copious amounts of water and provide fresh air.
Instantly call for doctor.
- **Information for 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** **Use fire fighting measures that suit the environment.**
- **Special hazards arising from the substance or mixture** **Formation of poisonous gases during heating or in fires.**
- **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** **Put on breathing apparatus.**
- **Environmental precautions:** **No special measures required.**
- **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.
- **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.

7 Handling and Storage

- **Handling**
- **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.**

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- **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.
- **Further information about storage conditions:** Keep container tightly sealed.
- **Specific end use(s)** No further relevant information available.

8 Exposure controls and personal protection

- **Additional information about design of technical systems:** No further data; see item 7.
- **Control parameters**

· **Components with critical values that require monitoring at the workplace:**

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

WES	Peak limitation: 0.1 mg/m ³
	Sk

- **Additional information:** The lists that were valid during the compilation were used as basis.
- **Exposure controls**
- **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.
- **Protection of hands:** Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.
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** The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.
- **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.

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· **Eye protection:** **Tightly sealed safety glasses.**

9 Physical and Chemical Properties

· **Information on basic physical and chemical properties**

· **Appearance:**

Form:	Fluid
Colour:	Light brown
Smell:	Amine-like
Odour threshold:	Not determined.

· **pH-value:** Not determined.

· **Change in condition**

Melting point/freezing point:	Not determined
Initial boiling point and boiling range:	200 °C

· **Flash point:** > 100 °C

· **Inflammability (solid, gaseous)** Not applicable.

· **Ignition temperature:** 450 °C

· **Decomposition temperature:** Not determined.

· **Self-inflammability:** Product is not selfigniting.

· **Explosive properties:** Product is not explosive.

· **Critical values for explosion:**

Lower:	Not determined.
Upper:	Not determined.

· **Steam pressure at 20 °C:** 0.1 hPa

Density at 20 °C	1.005 g/cm ³
Relative density	Not determined.
Vapour density	Not determined.
Evaporation rate	Not determined.

· **Solubility in / Miscibility with Water:** less miscible

· **Partition coefficient: n-octanol/water:** Not determined.

· **Viscosity:**

dynamic:	Not determined.
kinematic:	Not determined.

· **Other information** No further relevant information available.

10 Stability and Reactivity

· **Reactivity** No further relevant information available.

· **Possibility of hazardous reactions** No dangerous reactions known

· **Conditions to avoid** No further relevant information available.

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- **Incompatible materials:** *alkali und oxidants*
- **Hazardous decomposition products:** *None known.*

11 Toxicological Information

- *Information on toxicological effects*
- *Acute toxicity*

- *LD/LC50 values that are relevant for classification:*

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

Oral	LD50	1,030 mg/kg (rat)
Inhalative	LC50/4 h	4.6 mg/l (rat)

		930 mg/kg (rat)
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CAS: 1477-55-0 1,3-Benzoldimethanamin

Oral	LD50	2,000 mg/kg (rab)
		930 mg/kg (rat)
Inhalative	LC50/4 h	2.4 mg/l (Ratte, weiblich)
		>1.42 mg/l (rat)
		männlich

		>1,000 mg/kg (rat)
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CAS: 90-72-2 2,4,6-tris(dimethylaminomethyl)phenol

Oral	LD50	1,653 mg/kg (rat)
Dermal	LD50	>1,000 mg/kg (rat)

		>1,000 mg/kg (rat)
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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 (rab)

		4,033 mg/kg (rab)
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- **Primary irritant effect:**
- **Skin corrosion/irritation** *Caustic effect on skin and mucous membranes.*
- **Serious eye damage/irritation** *Strong caustic effect.*
 Strong irritant with the danger of severe eye injury.
- **Respiratory or skin sensitisation** *Sensitization possible by skin contact.*
- **Additional toxicological information:** *The product shows the following dangers according to the calculation method of the General EC Classification Guidelines for Preparations as issued in the latest version:*
 Harmful
 Corrosive
 Irritant
 Swallowing will lead to a strong caustic effect on mouth and throat and to the danger of perforation of esophagus and stomach.

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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: 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)

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: 140-31-8 2-piperazin-1-ylethylamine

LC 50 (96h)	2,190 mg/l (Akute Fischtoxizität (Zebrafisch))
EC50 (48h)	58 mg/l ((Wasserfloh (Daphnia magna)))

CAS: 90-72-2 2,4,6-tris(dimethylaminomethyl)phenol

LC 50 (96h)	180-240 mg/l (Oncorhynchus mykiss (Regenbogenforelle))
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CAS: 9046-10-0 Polypropylenglykol-bis(aminopropyl)ether

LC 50 (96h)	>220 mg/l (Goldorfe (Leuciscus idus))
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· Persistence and degradability No further relevant information available.

· Behaviour 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 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.

· 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 Must be forwarded for special treatment in accordance with local authority regulations, e.g. suitable incineration plant.

· Recommendation Disposal according to official regulations

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- **Uncleaned packagings:**
- **Recommendation:** **Disposal must be made according to official regulations.**

14 Transport information

· UN-Number	UN2735
· ADG, IMDG, IATA	
· UN proper shipping name	2735 AMINES, LIQUID, CORROSIVE, N.O.S.
· ADG	(Polyoxypropylendiamin, AMINOPHENOLS), ENVIRONMENTALLY HAZARDOUS
· IMDG	AMINES, LIQUID, CORROSIVE, N.O.S. (Polyoxypropylendiamin, AMINOPHENOLS), MARINE POLLUTANT
· IATA	AMINES, LIQUID, CORROSIVE, N.O.S. (Polyoxypropylendiamin, AMINOPHENOLS)
· Transport hazard class(es)	
· ADG, IMDG	
	
· Class	8 Corrosive substances.
· Label	8
· IATA	
	
· Class	8 Corrosive substances.
· Label	8
· Packing group	
· ADG, IMDG, IATA	II
· Environmental hazards:	Product contains environmentally hazardous substances: resorcinol
· Marine pollutant:	No
· Special marking (ADG):	Symbol (fish and tree)
	Symbol (fish and tree)
· Special precautions for user	Warning: Corrosive substances.
· Kemler Number:	80
· EMS Number:	F-A,S-B
· Segregation groups	Alkalis
· Stowage Category	A
· Segregation Code	SG35 Stow "separated from" acids.
· Transport in bulk according to Annex II of Marpol and the IBC Code	Not applicable.

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· Transport/Additional information:

· ADG	
· 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	
· Tunnel restriction code	2 E
· 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
· UN "Model Regulation":	UN 2735 AMINES, LIQUID, CORROSIVE, N.O.S. (POLYOXYPROPYLENDIAMIN, AMINOPHENOLS), 8, II, ENVIRONMENTALLY HAZARDOUS

15 Regulatory information

· Safety, health and environmental regulations/legislation specific for the substance or mixture

· Australian Inventory of Chemical Substances

CAS: 61788-44-1	phenol, styrenated
CAS: 9046-10-0	Polyoxypropylendiamin
CAS: 2855-13-2	3-aminomethyl-3,5,5-trimethylcyclohexylamine
CAS: 1477-55-0	1,3-Benzoldimethanamin
CAS: 140-31-8	2-piperazin-1-ylethylamine
CAS: 90-72-2	2,4,6-tris(dimethylaminomethyl)phenol
CAS: 9046-10-0	Polypropylenglykol-bis(aminopropyl)ether
CAS: 919-30-2	3-aminopropyltriethoxysilane
CAS: 69-72-7	Salicylic acid
CAS: 108-46-3	resorcinol

· Standard for the Uniform Scheduling of Medicines and Poisons

CAS: 69-72-7	Salicylic acid	S3
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· GHS label elements

The product is classified and labelled according to the Globally Harmonised System (GHS).

· Hazard pictograms



GHS05 GHS07

· Signal word

Danger

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- **Hazard-determining components of labelling:** 3-aminomethyl-3,5,5-trimethylcyclohexylamine
Polyoxypropylendiamin
2-piperazin-1-ylethylamine
1,3-Benzoldimethanamin
phenol, styrenated
3-aminopropyltriethoxysilane
- **Hazard statements** Harmful if swallowed.
Harmful in contact with skin.
Harmful if inhaled.
Causes severe skin burns and eye damage.
May cause an allergic skin reaction.
- **Precautionary statements** If medical advice is needed, have product container or label at hand.
Read label before use.
Do not breathe dusts or mists.
Wash thoroughly after handling.
Do not eat, drink or smoke when using this product.
Use only outdoors or in a well-ventilated area.
Contaminated work clothing should not be allowed out of the workplace.
Wear protective gloves/protective clothing/eye protection/face protection.
IF SWALLOWED: Call a POISON CENTER/doctor if you feel unwell.
IF SWALLOWED: rinse mouth. Do NOT induce vomiting.
IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/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.
- **Directive 2012/18/EU**
- **Named dangerous substances - ANNEX I** None of the ingredients is listed.
- **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

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· **Chemical safety assessment: A Chemical Safety Assessment has not been carried out.**

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.

· **Relevant phrases**

H227 Combustible liquid.
H302 Harmful if swallowed.
H311 Toxic in contact with skin.
H312 Harmful in contact with skin.
H314 Causes severe skin burns and eye damage.
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.

· **Abbreviations and acronyms:**

ADR: Accord européen sur le transport 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
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
Flam. Liq. 4: Flammable liquids – Category 4
Acute Tox. 4: Acute toxicity – Category 4
Acute Tox. 3: Acute toxicity – Category 3
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
Eye Irrit. 2A: Serious eye damage/eye irritation – Category 2A
Skin Sens. 1: Skin sensitisation – Category 1
Skin Sens. 1A: Skin sensitisation – Category 1A

· * **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.