

**Safety Data Sheet**  
in accordance with HSNO

Printing date 23.01.2019




Version number 70

Revision: 23.01.2019

**SECTION 1: Identification of the substance or mixture and of the supplier**

- **1.1 Product identifier**
- **Trade name** Okapox GF Komp. A
- **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)**
- **Application of the substance / the mixture** **Priming**
- **1.3 Details of the supplier of the safety data sheet**
- **Manufacturer/Supplier:** **Polyflor New Zealand  
2 Narek Place  
Manukau 2104  
New Zealand  
Phone: 0800765935  
sales@polyflor.co.nz**
- **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**
-  **environment**
- **Aquatic Chronic 2 H411 Toxic to aquatic life with long lasting effects.**
- 
- **Skin Irrit. 2 H315 Causes skin irritation.**
- **Eye Irrit. 2 H319 Causes serious eye irritation.**
- **Skin Sens. 1 H317 May cause an allergic skin reaction.**
- **Determined by Kiesel using GHS/HSNO Criteria** **6.3A, 6.4A, 6.5B, 9.1B**
- **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**   
**GHS07 GHS09**
- **Signal word** **Warning**
- **Hazard-determining components of labelling:** **reaction product: bisphenol-A-(epichlorhydrin) epoxy resin  
(number average molecular weight = 700)  
C12-C14 aliphatic glycidyl ethers  
phenol, polymer with formaldehyde, glycidyl ether**

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- **Hazard statements**
  - H315 Causes skin irritation.
  - H319 Causes serious eye irritation.
  - 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.
  - P264 Wash thoroughly after handling.
  - P273 Avoid release to the environment.
  - P280 Wear protective gloves / eye protection / face protection.
  - P302+P352 IF ON SKIN: Wash with plenty of water.
  - P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
  - P333+P313 If skin irritation or rash occurs: Get medical advice/attention.
  - P337+P313 If eye irritation persists: Get medical advice/attention.
  - 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** People who are allergic to epoxy resins, should the use of the product to avoid.
- **Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.

### SECTION 3: Composition/Information on ingredients

#### · 3.2 Chemical characterisation: Mixtures

##### · Dangerous components:

CAS: 25068-38-6 NLP: 500-033-5	reaction product: bisphenol-A-(epichlorhydrin) epoxy resin (number average molecular weight = 700) ⚠ Aquatic Chronic 2, H411 ⚠ Skin Irrit. 2, H315; Eye Irrit. 2, H319; Skin Sens. 1, H317	50-100%
CAS: 68609-97-2 EINECS: 271-846-8	C12-C14 aliphatic glycidyl ethers ⚠ Skin Irrit. 2, H315; Skin Sens. 1, H317	10-<25%
CAS: 28064-14-4	phenol, polymer with formaldehyde, glycidyl ether ⚠ Aquatic Chronic 2, H411 ⚠ Skin Irrit. 2, H315; Eye Irrit. 2, H319; Skin Sens. 1, 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

- **After inhalation** Provide plenty of fresh air.  
In case of unconsciousness bring patient into stable side position for transport.
- **After skin contact** Remove contaminated clothing immediately and clean the skin with soap and water.  
Instantly wash with water and soap and rinse thoroughly.

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- **After eye contact** **Rinse opened eye for several minutes under running water. If symptoms persist, consult doctor.**
- **After swallowing** **Rinse out the mouth immediately and consume large amounts of water, prevent vomiting, seek medical advice.**
- **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: Fire fighting measures

- **5.1 Extinguishing media**
- **Suitable extinguishing agents** **Use fire fighting measures that suit the environment.**
- **5.2 Special hazards arising from the substance or mixture** **Can be released in case of fire  
Carbon monoxide (CO)  
Sulphur dioxide (SO<sub>2</sub>)**
- **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** **Ensure adequate ventilation**
- **6.2 Environmental precautions:** **Do not allow product to reach sewage system or water bodies. 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).  
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:** **No special measures required.**

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- **7.2 Conditions for safe storage, including any incompatibilities**
- **Storage**
- **Requirements to be met by storerooms and containers:** Store only in the original container.
- **Information about storage in one common storage facility:** Store away from foodstuffs.
- **Further information about storage conditions:** Keep container tightly sealed.
- **7.3 Specific end use(s)** No further relevant information available.

## SECTION 8: Exposure controls/personal protection

- **Additional information about design of technical systems:** No further data; see item 7.
- **8.1 Control parameters**
- **Components with critical values that require monitoring at the workplace:**

### · DNELs

**CAS: 25068-38-6 reaction product: bisphenol-A-(epichlorhydrin) epoxy resin (number average molecular weight = 700)**

<b>Oral</b>	<b>Long-term value</b>	0.75 mg/kg/d (Worker)
	<b>Short-term value</b>	0.75 mg/kg/d (Worker)
<b>Dermal</b>	<b>Long-term value</b>	3.6 mg/kg/d (Worker)
		8.3 mg/kg/d (Consumer)
	<b>Short-term value</b>	3.6 mg/kg/d (Worker)
		8.3 mg/kg/d (Consumer)
<b>Inhalative</b>	<b>Long-term value</b>	0.75 mg/m <sup>3</sup> (Worker)
		12.3 mg/m <sup>3</sup> (Consumer)
	<b>Short-term value</b>	0.75 mg/m <sup>3</sup> (Worker)
		12.3 mg/m <sup>3</sup> (Consumer)

**CAS: 28064-14-4 phenol, polymer with formaldehyde, glycidyl ether**

**Inhalative Short-term value 12.3 mg/m<sup>3</sup> (Consumer)**

### · PNECs

**CAS: 25068-38-6 reaction product: bisphenol-A-(epichlorhydrin) epoxy resin (number average molecular weight = 700)**

<b>Freshwater</b>	0.006 mg/l (-)
<b>Salt water</b>	0.0006 mg/l (-)
<b>Freshwater Sediment</b>	0.1 mg/kg (-)
<b>Salt Water Sediment</b>	0.01 mg/l (-)
<b>Ground</b>	0.15 mg/kg (-)
<b>Sewage Planbt</b>	10 mg/l (-)

- **Additional information:** The lists that were valid during the compilation were used as basis.
- **8.2 Exposure controls**
- **Personal protective equipment**
- **General protective and hygienic measures**
  - Do not eat, drink or smoke while working.
  - 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 and skin.

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- **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:** *Use gloves of stable material (e.g. Nitrile) - if necessary tricoted to improve the wearability.  
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.*
- **Eye protection:** *Safety glasses recommended during refilling.*
- **Body protection:** *Protective work clothing.*

## SECTION 9: Physical and chemical properties

### · 9.1 Information on basic physical and chemical properties

#### · Appearance:

<b>Form:</b>	<b>Fluid</b>
<b>Colour:</b>	<b>Yellow</b>
<b>Smell:</b>	<b>Weak, characteristic</b>
<b>Odour threshold:</b>	<b>Not determined.</b>

· **pH-value:** **Not determined.**

#### · Change in condition

<b>Melting point/freezing point:</b>	<b>not used</b>
<b>Initial boiling point and boiling range:</b>	<b>&gt;200 °C</b>

· **Flash point:** **> 100 °C**

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

· **Decomposition temperature:** **n.d.**

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

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

#### · Critical values for explosion:

<b>Lower:</b>	<b>Not determined.</b>
<b>Upper:</b>	<b>Not determined.</b>

· **Steam pressure:** **Not determined.**

<b>Density at 20 °C</b>	<b>1.13 g/cm<sup>3</sup></b>
<b>Relative density</b>	<b>Not determined.</b>
<b>Vapour density</b>	<b>Not determined.</b>
<b>Evaporation rate</b>	<b>Not determined.</b>

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- |   |   |
|---|---|
| · Solubility in / Miscibility with Water: | Not miscible, or only slightly miscible |
| · Partition coefficient: n-octanol/water: | Not determined.                         |
| · Viscosity:<br>dynamic at 20 °C:         | 800 mPas                                |
| kinematic:                                | Not determined.                         |
| · 9.2 Other information                   | The physical data are average values.   |

## 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 toxicological effects
  - Acute toxicity Based on available data, the classification criteria are not met.
- |  |                          |
|--|--------------------------|
| · LD/LC50 values that are relevant for classification: |                          |
| CAS: 68609-97-2 C12-C14 aliphatic glycidyl ethers      |                          |
| Oral   | LD50 >10,000 mg/kg (rat) |
- Primary irritant effect:
  - Skin corrosion/irritation Causes skin irritation.
  - Serious eye damage/irritation Causes serious eye irritation.
  - Respiratory or skin sensitisation May cause an allergic skin reaction.
  - CMR effects (carcinogenity, mutagenicity and toxicity for reproduction)
  - 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.

## SECTION 12: Ecological information

### · 12.1 Toxicity

#### · Aquatic toxicity:

CAS: 25068-38-6 reaction product: bisphenol-A-(epichlorhydrin) epoxy resin (number average molecular weight = 700)

LC 50 (96h)	3.6 mg/l (Oncorhynchus mykiss ( Regenbogenforelle))
EC50 (48h)	2.8 mg/l ((Wasserfloh (Daphnia magna)))
	<10 mg/l (Desmodesmus subspicatus (Grünalge))

- 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.**
- **Ecotoxicological 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.**  
**Danger to drinking water if even small quantities leak into soil.**  
**Also poisonous for fish and plankton in water bodies.**  
**Toxic for aquatic organisms**
- **12.5 Results of PBT and vPvB assessment**
- **PBT:** **Not applicable.**
- **vPvB:** **Not applicable.**
- **12.6 Other adverse effects** **No further relevant information available.**

## 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**
- **ADR, IMDG, IATA** **UN3082**
- **14.2 UN proper shipping name**
- **ADR** **3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (reaction product: bisphenol-A-(epichlorhydrin) epoxy resin (number average molecular weight = 700), C12-C14 aliphatic glycidyl ethers)**
- **IMDG** **ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (reaction product: bisphenol-A-(epichlorhydrin) epoxy resin (number average molecular weight = 700), C12-C14 aliphatic glycidyl ethers), MARINE POLLUTANT**
- **IATA** **ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (reaction product: bisphenol-A-(epichlorhydrin) epoxy resin (number average molecular weight = 700), C12-C14 aliphatic glycidyl ethers)**
- **14.3 Transport hazard class(es)**
- **ADR, IMDG, IATA**
-  
- **Class** **9 Miscellaneous dangerous substances and articles.**
- **Label** **9**

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<ul style="list-style-type: none"> <li>· 14.4 Packing group</li> <li>· ADR, IMDG, IATA</li> </ul>	III
<ul style="list-style-type: none"> <li>· 14.5 Environmental hazards:</li> <li>· Marine pollutant:</li> <li>· Special marking (ADR):</li> <li>· Special marking (IATA):</li> </ul>	<p><b>Product contains environmentally hazardous substances: reaction product: bisphenol-A-(epichlorhydrin) epoxy resin (number average molecular weight = 700)</b></p> <p>No</p> <p>Symbol (fish and tree)</p> <p>Symbol (fish and tree)</p> <p>Symbol (fish and tree)</p>
<ul style="list-style-type: none"> <li>· 14.6 Special precautions for user</li> <li>· Kemler Number:</li> <li>· EMS Number:</li> <li>· Stowage Category</li> </ul>	<p><b>Warning: Miscellaneous dangerous substances and articles.</b></p> <p>90</p> <p>F-A,S-F</p> <p>A</p>
<ul style="list-style-type: none"> <li>· 14.7 Transport in bulk according to Annex II of Marpol and the IBC Code</li> </ul>	Not applicable.
<ul style="list-style-type: none"> <li>· Transport/Additional information:</li> </ul>	
<ul style="list-style-type: none"> <li>· ADR</li> <li>· Limited quantities (LQ)</li> <li>· Excepted quantities (EQ)</li> </ul>	<p>5L</p> <p>Code: E1</p> <p>Maximum net quantity per inner packaging: 30 ml</p> <p>Maximum net quantity per outer packaging: 1000 ml</p>
<ul style="list-style-type: none"> <li>· Transport category</li> <li>· Tunnel restriction code</li> </ul>	<p>3</p> <p>E</p>
<ul style="list-style-type: none"> <li>· IMDG</li> <li>· Limited quantities (LQ)</li> <li>· Excepted quantities (EQ)</li> </ul>	<p>5L</p> <p>Code: E1</p> <p>Maximum net quantity per inner packaging: 30 ml</p> <p>Maximum net quantity per outer packaging: 1000 ml</p>
<ul style="list-style-type: none"> <li>· Remarks:</li> </ul>	<p>Special Provision 375</p>
<ul style="list-style-type: none"> <li>· UN "Model Regulation":</li> </ul>	<p><b>UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (REACTION PRODUCT: BISPHENOL-A-(EPICHLORHYDRIN) EPOXY RESIN (NUMBER AVERAGE MOLECULAR WEIGHT = 700), C12-C14 ALIPHATIC GLYCIDYL ETHERS), 9, III</b></p>

## SECTION 15: Regulatory information

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

**This substance is to be managed using the conditions specified in an applicable Group Standard**

**HSR Number    Group Standard**

**HSR002624    N.O.S. (Subsidiary Hazard) Group Standard**  
**2006**

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**HSR002535 Compressed Gas Mixtures (Subsidiary Hazard) Group Standard 2006**  
**HSR002596 Laboratory Chemicals and Reagent Kits Group Standard 2006**  
**HSR002530 Cleaning Products (Subsidiary Hazard) Group Standard 2006**  
**HSR002585 Fuel Additives (Subsidiary Hazard) Group Standard 2006**  
**HSR002519 Aerosols (Subsidiary Hazard) Group Standard 2006**  
**HSR002521 Animal Nutritional and Animal Care Products Group Standard 2006**  
**HSR002606 Lubricants, Lubricant Additives, Coolants and Anti-freeze Agents (Subsidiary Hazard) Group Standard 2006**  
**HSR002644 Polymers (Subsidiary Hazard) Group Standard 2006**  
**HSR002647 Reagent Kits Group Standard 2006**  
**HSR002612 Metal Industry Products (Subsidiary Hazard) Group Standard 2006**  
**HSR002670 Surface Coatings and Colourants (Subsidiary Hazard) Group Standard 2006**  
**HSR002503 Additives, Process Chemicals and Raw Materials (Subsidiary Hazard) Group Standard 2006**  
**HSR002638 Photographic Chemicals (Subsidiary Hazard) Group Standard 2006**  
**HSR002565 Embalming Products (Subsidiary Hazard) Group Standard 2006**  
**HSR002578 Food Additives and Fragrance Materials (Subsidiary Hazard) Group Standard 2006**  
**HSR002558 Dental Products (Subsidiary Hazard) Group Standard 2006**  
**HSR002684 Water Treatment Chemicals (Subsidiary Hazard) Group Standard 2006**  
**HSR002573 Fire Fighting Chemicals Group Standard 2006**  
**HSR100425 Pharmaceutical Active Ingredients Group Standard 2010**  
**HSR002600 Leather and Textile Products (Subsidiary Hazard) Group Standard 2006**  
**HSR002571 Fertilisers (Subsidiary Hazard) Group Standard 2006**  
**HSR002648 Refining Catalysts Group Standard 2006**  
**HSR002653 Solvents (Subsidiary Hazard) Group Standard 2006**  
**HSR002544 Construction Products (Subsidiary Hazard) Group Standard 2006**  
**HSR002549 Corrosion Inhibitors (Subsidiary Hazard) Group Standard 2006**  
**HSR002552 Cosmetic Products Group Standard 2006**  
**HSR100757 Veterinary Medicine (Limited Pack Size, Finished Dose) Standard 2012**  
**HSR100758 Veterinary Medicines (Non-dispersive Closed System Application) Group Standard 2012**  
**HSR100759 Veterinary Medicines (Non-dispersive Open System Application) Group Standard 2012**  
**HSR100628 Straight-chained Lepidopteran Sex Pheromone Group Standard 2012**

· New Zealand Inventory of Chemicals

All ingredients are listed.

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· **New Zealand HSNO Hazard Classes and Categories**

None of the ingredients is listed.

· **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

· **15.2 Chemical safety assessment:**

**A Chemical Safety Assessment has not been carried out.**

### SECTION 16: Other information

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.

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**

**H315 Causes skin irritation.**

**H317 May cause an allergic skin reaction.**

**H319 Causes serious eye irritation.**

**H411 Toxic to aquatic life with long lasting effects.**

· **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**

**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**

**Skin Irrit. 2: Skin corrosion/irritation – Category 2**

**Eye Irrit. 2: Serious eye damage/eye irritation – Category 2**

**Skin Sens. 1: Skin sensitisation – Category 1**

**Aquatic Chronic 2: Hazardous to the aquatic environment - long-term aquatic hazard – Category 2**

· **\* 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.**