

Safety Data Sheet
in accordance with HSNO

Printing date 23.01.2019

Version number 16

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. B
- **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** Hardening agent/ Curing agent
- **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**



health hazard

- Repr. 2 H361 Suspected of damaging fertility or the unborn child.
- STOT RE 2 H373 May cause damage to organs through prolonged or repeated exposure.



corrosion

- Skin Corr. 1B H314 Causes severe skin burns and eye damage.
- Eye Dam. 1 H318 Causes serious eye damage.



environment

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



- 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.

- **Determined by Kiesel using GHS/HSNO Criteria** 6.1D, 8.2B, 8.3A, 6.5B, 6.8B, 6.9B, 9.1B

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- **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:**

3-aminomethyl-3,5,5-trimethylcyclohexylamine
2-piperazin-1-ylethylamine
Polyoxypropylendiamin
1,3-Benzoldimethanamin
phenol, styrenated
3-aminopropyltriethoxysilane
- **Hazard statements**

H302+H312+H332 Harmful if swallowed, in contact with skin or if inhaled.

H314 Causes severe skin burns and eye damage.

H317 May cause an allergic skin reaction.

H361 Suspected of damaging fertility or the unborn child.

H373 May cause damage to organs through prolonged or repeated exposure.

H411 Toxic to aquatic life with long lasting effects.
- **Precautionary statements**

P101 If medical advice is needed, have product container or label at hand.

P103 Read label before use.

P260 Do not breathe dust/fume/gas/mist/vapours/spray.

P271 Use only outdoors or in a well-ventilated area.

P280 Wear protective gloves/protective clothing/eye protection/face protection.

P301+P310 IF SWALLOWED: Immediately call a doctor.

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].

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P314 Get medical advice/attention if you feel unwell.

P333+P313 If skin irritation or rash occurs: Get medical advice/attention.

P405 Store locked up.

P501 Dispose of contents/container in accordance with local/regional/national/international regulations.
- **Additional information:** **Restricted to professional users**
- **2.3 Other hazards**
- **Results of PBT and vPvB assessment**
- **PBT:** **Not applicable.**

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· vPvB:

Not applicable.

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SECTION 3: Composition/Information on ingredients

· 3.2 Chemical characterisation: Mixtures

· Dangerous components:

CAS: 61788-44-1 EINECS: 262-975-0	phenol, styrenated ⚠ Aquatic Chronic 2, H411 ⚠ Skin Irrit. 2, H315; Eye Irrit. 2, H319; Skin Sens. 1A, H317	25-<50%
CAS: 9046-10-0 EC number: 618-561-0	Polyoxypropylendiamin ⚠ Skin Corr. 1B, H314 ⚠ Aquatic Chronic 2, H411	10-<25%
CAS: 2855-13-2 EINECS: 220-666-8	3-aminomethyl-3,5,5-trimethylcyclohexylamine ⚠ Acute Tox. 3, H331 ⚠ Skin Corr. 1B, H314 ⚠ Acute Tox. 4, H302; Acute Tox. 4, H312; Skin Sens. 1, H317 Aquatic Chronic 3, H412	10-<25%
CAS: 1477-55-0 EINECS: 216-032-5	1,3-Benzoldimethanamin ⚠ Skin Corr. 1B, H314 ⚠ Acute Tox. 4, H302; Acute Tox. 4, H332; Skin Sens. 1, H317 Aquatic Chronic 3, H412	≥5-<10%
CAS: 140-31-8 EINECS: 205-411-0	2-piperazin-1-ylethylamine ⚠ Acute Tox. 3, H311 ⚠ Repr. 2, H361; STOT RE 1, H372 ⚠ Skin Corr. 1B, H314; Eye Dam. 1, H318 ⚠ Acute Tox. 4, H302; Skin Sens. 1, H317 Aquatic Chronic 3, H412	≥5-<10%
CAS: 90-72-2 EINECS: 202-013-9	2,4,6-tris(dimethylaminomethyl)phenol ⚠ Acute Tox. 4, H302; Acute Tox. 4, H312; Skin Irrit. 2, H315; Eye Irrit. 2, H319	2.5-<10%
CAS: 9046-10-0 Polymer	Polypropylenglykol-bis(aminopropyl)ether ⚠ Skin Corr. 1B, H314 ⚠ Acute Tox. 4, H302; Acute Tox. 4, H312 Aquatic Chronic 3, H412	≥2.5-<5%
CAS: 2579-20-6 EINECS: 219-941-5	1,3-Cyclohexanedimethanamine ⚠ Acute Tox. 4, H302	0.5-<2.5%
CAS: 919-30-2 EINECS: 213-048-4	3-aminopropyltriethoxysilane ⚠ Skin Corr. 1B, H314; Eye Dam. 1, H318 ⚠ Acute Tox. 4, H302; Skin Sens. 1, H317	≥1-<2.5%
CAS: 108-46-3 EINECS: 203-585-2	resorcinol ⚠ Aquatic Acute 1, H400 ⚠ Acute Tox. 4, H302; Skin Irrit. 2, H315; Eye Irrit. 2, H319	<0.25%

· 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

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

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- **After inhalation** **Provide plenty of fresh air.**
- **After skin contact** **In case of unconsciousness bring patient into stable side position for transport.**
- **After eye contact** **Instantly wash with water and soap and rinse thoroughly.**
- **After swallowing** **Rinse opened eye for several minutes under running water. Then consult doctor.**
- **4.2 Most important symptoms and effects, both acute and delayed** **Instantly call for doctor.**
- **4.3 Indication of any immediate medical attention and special treatment needed** **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: 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** **Formation of poisonous gases during heating or in fires.**
- **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.**
- **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.**

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- **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.*
- **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:**

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

WES (New Zealand) Ceiling limit: 0.1 mg/m³
skin

NES (Australia) Ceiling limit: 0.1 mg/m³
Sk

WES (Australia) Ceiling limit: 0.1 mg/m³
Sk

CAS: 108-46-3 resorcinol

WES (New Zealand) Short-term value: 90 mg/m³, 20 ppm
Long-term value: 45 mg/m³, 10 ppm

NES (Australia) Short-term value: 90 mg/m³, 20 ppm
Long-term value: 45 mg/m³, 10 ppm

WES (Australia) Short-term value: 90 mg/m³, 20 ppm
Long-term value: 45 mg/m³, 10 ppm

- **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**

*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.
Store protective clothing separately.
Avoid contact with the eyes.*

- **Breathing equipment:** *Avoid contact with the eyes and skin.
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*

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- **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:** **Tightly sealed safety glasses.**

SECTION 9: Physical and chemical properties

· 9.1 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.

· 9.2 Other information No further relevant information available.

SECTION 10: Stability and reactivity

- 10.1 Reactivity No further relevant information available.
- 10.3 Possibility of hazardous reactions No dangerous reactions known

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- **10.4 Conditions to avoid** **No further relevant information available.**
- **10.5 Incompatible materials:** **alkali und oxidants**
- **10.6 Hazardous decomposition products:** **None known.**

SECTION 11: Toxicological information

- **11.1 Information on toxicological effects**
- **Acute toxicity** **Harmful if swallowed, in contact with skin or if inhaled.**

- **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)

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)

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

Oral LD50 1,653 mg/kg (rat)

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

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)

- **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 an allergic skin reaction.**
- **CMR effects (carcinogenicity, 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** **Suspected of damaging fertility or the unborn child.**
- **STOT-single exposure** **Based on available data, the classification criteria are not met.**
- **STOT-repeated exposure** **May cause damage to organs through prolonged or repeated exposure.**
- **Aspiration hazard** **Based on available data, the classification criteria are not met.**

SECTION 12: Ecological information

- **12.1 Toxicity**

- **Aquatic toxicity:**

CAS: 9046-10-0 Polyoxypropylendiamin

LC 50 (96h) >220 mg/l (Goldorfe (*Leuciscus idus*))

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)

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

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

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

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

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

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

LC 50 (96h)	>220 mg/l (Goldorfe (<i>Leuciscus idus</i>))
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- **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.**
- **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. 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**
- **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** **Must be forwarded for special treatment in accordance with local authority regulations, e.g. suitable incineration plant.**
- **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** **UN2922**
- **14.2 UN proper shipping name**
- **ADR** **2922 CORROSIVE LIQUID, TOXIC, N.O.S. (P o l y o x y p r o p y l e n d i a m i n , ISOPHORONEDIAMINE), ENVIRONMENTALLY HAZARDOUS**

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-NZ

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<ul style="list-style-type: none"> · IMDG · IATA 	<p>CORROSIVE LIQUID, TOXIC, N.O.S. (<i>P o l y o x y p r o p y l e n d i a m i n</i> , ISOPHORONEDIAMINE), MARINE POLLUTANT CORROSIVE LIQUID, TOXIC, N.O.S. (<i>P o l y o x y p r o p y l e n d i a m i n</i> , ISOPHORONEDIAMINE)</p>
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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: phenol, styrenated

- **Marine pollutant:**

No

- **Special marking (ADR):**

Symbol (fish and tree)

Symbol (fish and tree)

- **14.6 Special precautions for user**

Warning: Corrosive substances.

- **Kemler Number:**

86

- **EMS Number:**

F-A,S-B

- **Stowage Category**

B

- **Stowage Code**

SW2 Clear of living quarters.

- **14.7 Transport in bulk according to Annex II of Marpol and the IBC Code**

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

Maximum net quantity per outer packaging: 500 ml

- **UN "Model Regulation":**

UN 2922 CORROSIVE LIQUID, TOXIC, N.O.S.
(POLYOXYPROPYLENDIAMIN,

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**ISOPHORONEDIAMINE), 8, II,
ENVIRONMENTALLY HAZARDOUS**

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

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

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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.

· New Zealand HSNO Hazard

Classes and Categories Acute toxicity : Oral 6.1 D (Oral)

None of the ingredients is listed.

· Directive 2012/18/EU

· Named dangerous substances - ANNEX I

· Seveso category

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

None of the ingredients is listed.

E2 Hazardous to the Aquatic Environment

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

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

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.

H331 Toxic if inhaled.

H332 Harmful if inhaled.

H361 Suspected of damaging fertility or the unborn child.

H372 Causes damage to organs through prolonged or repeated exposure.

H400 Very toxic to aquatic life.

H411 Toxic to aquatic life with long lasting effects.

H412 Harmful 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)

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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****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. 2: Serious eye damage/eye irritation – Category 2****Skin Sens. 1: Skin sensitisation – Category 1****Skin Sens. 1A: Skin sensitisation – Category 1A****Repr. 2: Reproductive toxicity – Category 2****STOT RE 1: Specific target organ toxicity (repeated exposure) – Category 1****STOT RE 2: Specific target organ toxicity (repeated exposure) – Category 2****Aquatic Acute 1: Hazardous to the aquatic environment - acute aquatic hazard – Category 1****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.