

**Safety Data Sheet**  
in accordance with HSNO

Printing date 16.01.2019

Version number 3

Revision: 16.01.2019

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

- **1.1 Product identifier**
- **Trade name** Okapol SH Komp. B
- **1.2 Relevant identified uses of the substance or mixture and uses advised against** none  
Do not use for splashing / spraying
- **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

**Resp. Sens. 1 H334** May cause allergy or asthma symptoms or breathing difficulties if inhaled.

**Carc. 2 H351** Suspected of causing cancer.

**STOT RE 2 H373** May cause damage to organs through prolonged or repeated exposure.



**Acute Tox. 4 H332** Harmful if inhaled.

**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.

**STOT SE 3 H335** May cause respiratory irritation.

- **Determined by Kiesel using GHS/HSNO Criteria** 6.1D, 6.1E, 6.3A, 6.4A, 6.5A, 6.5B, 6.7B, 6.9B

- **2.2 Label elements**
- **Labelling according to Regulation (EC) No 1272/2008** The product is classified and labelled according to the CLP regulation.

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## · Hazard pictograms



GHS07 GHS08

## · Signal word

Danger

 · Hazard-determining  
 components of labelling:  
 · Hazard statements

*diphenylmethanediisocyanate, isomeres and homologues*  
**H332 Harmful if inhaled.**  
**H315 Causes skin irritation.**  
**H319 Causes serious eye irritation.**  
**H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.**  
**H317 May cause an allergic skin reaction.**  
**H351 Suspected of causing cancer.**  
**H335 May cause respiratory irritation.**  
**H373 May cause damage to organs through prolonged or repeated exposure.**

## · Precautionary statements

**P102** Keep out of reach of children.  
**P261** Avoid breathing dust/fume/gas/mist/vapours/spray.  
**P271** Use only outdoors or in a well-ventilated area.  
**P272** Contaminated work clothing should not be allowed out of the workplace.  
**P280** Wear protective gloves/protective clothing/eye protection/face protection.  
**P284** [In case of inadequate ventilation] wear respiratory 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.  
**P342+P311** If experiencing respiratory symptoms: Call a POISON CENTER/doctor.  
**P362+P364** Take off contaminated clothing and wash it before reuse.  
**P405** Store locked up.  
**P501** Dispose of contents/container in accordance with local/regional/national/international regulations.

## · Additional information:

Restricted to professional users  
**EUH204 Contains isocyanates. 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

## · 3.1 Chemical characterisation: Substances

· CAS No. Designation: 9016-87-9 *diphenylmethanediisocyanate, isomeres and homologues*

## · Identification number(s):

· Index number: 615-005-00-9

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- **3.2 Chemical characterisation: Mixtures**
- **Description:** *Mixture of the substances listed below with nonhazardous additions.*

- **Dangerous components:**

<b>CAS: 9016-87-9</b>	<b>diphenylmethanediisocyanate, isomeres and homologues</b>	<b>50-100%</b>
	 <b>Resp. Sens. 1, H334; Carc. 2, H351; STOT RE 2, H373</b> <b>Acute Tox. 4, H332; Skin Irrit. 2, H315; Eye Irrit. 2, H319; Skin Sens. 1, H317; STOT SE 3, H335</b>	

- **Additional information** *Have also a look to point 8 "Exposure controls and personal protection"*  
*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.*
- **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. If symptoms persist, consult doctor.*
- **After swallowing** *In case of persistent symptoms consult 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 toxic gases is possible during heating or in case of fire.*  
*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** *Ensure adequate ventilation*
- **6.2 Environmental precautions:** *No special measures required.*

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- **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.*
- **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: 9016-87-9 diphenylmethanediisocyanate, isomeres and homologues**

<b>WES (New Zealand)</b>	<i>Short-term value: 0.07 mg/m<sup>3</sup> Long-term value: 0.02 mg/m<sup>3</sup> sen, vapours, mist, dust; as -NCO</i>
<b>NES (Australia)</b>	<i>Short-term value: 0.07 mg/m<sup>3</sup> Long-term value: 0.02 mg/m<sup>3</sup> Sen, as -NCO</i>
<b>WES (Australia)</b>	<i>Short-term value: 0.07 mg/m<sup>3</sup> Long-term value: 0.02 mg/m<sup>3</sup> Sen, as -NCO</i>

- **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.*

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- Wash hands during breaks and at the end of the work.**  
**Store protective clothing separately.**  
**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:** **Rubber or plastic gloves, impermeable gloves made of synthetic rubber, polybutadiene.**  
**Not to be used: gloves made of PVC, polyethylene.**  
**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:** **Tightly sealed safety glasses.**
  - **Body protection:** **Safety shoes, sealed working 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>Brown</b>
- **Smell:** **Weak, characteristic**
- **Odour threshold:** **Not determined.**
- **pH-value:** **n.a.**
- **Change in condition**

<b>Melting point/freezing point:</b>	<b>41 °C</b>
<b>Initial boiling point and boiling range:</b>	<b>&gt;200 °C</b>
- **Flash point:** **> 100 °C**
- **Inflammability (solid, gaseous)** **Not applicable.**
- **Ignition temperature:** **400 °C**
- **Decomposition temperature:** **Not determined.**
- **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 at 25 °C:** **0.0002 hPa**

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· Density at 20 °C	1.12 g/cm <sup>3</sup>
· 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
- 10.4 Conditions to avoid No further relevant information available.
- 10.5 Incompatible materials: acids, water
- 10.6 Hazardous decomposition products: None known.

## SECTION 11: Toxicological information

### · 11.1 Information on toxicological effects

- Acute toxicity Harmful if inhaled.

### · LD/LC50 values that are relevant for classification:

CAS: 9016-87-9 diphenylmethanediisocyanate, isomeres and homologues

Oral	LD50	>10,000 mg/kg (rat)
Dermal	LD50	>10,000 mg/kg (rab)
Inhalative	LC50/4 h	0.493 mg/l (rat)

- Primary irritant effect:
  - Skin corrosion/irritation Causes skin irritation.
  - Serious eye damage/irritation Causes serious eye irritation.
  - Respiratory or skin sensitisation May cause allergy or asthma symptoms or breathing difficulties if inhaled.  
May cause an allergic skin reaction.
- Subacute to chronic toxicity: Subacute-chronical toxicity
  - Length of trials: 2 years
  - Application: inhalative (rat): > 0.2 < 1 mg/m<sup>3</sup> aerosol (PMDI).
  - Findings: when inhaled, the substance caused clear local irritation in the rats with epithelium damage.
  - Application: inhalative (rat): 6 mg/m<sup>3</sup> aerosol (PMDI).
  - Findings: when inhaled, the substance caused clear local irritation in the rats with epithelium damage. Some of the animals also suffered local tumour growth after this.
- CMR effects (carcinogenity, mutagenicity and toxicity for reproduction)
- Germ cell mutagenicity Based on available data, the classification criteria are not met.
- Carcinogenicity Suspected of causing cancer.
- Reproductive toxicity Based on available data, the classification criteria are not met.

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- **STOT-single exposure**                    **May cause respiratory irritation.**
- **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: 9016-87-9 diphenylmethanediisocyanate, isomeres and homologues

EC50(3h)    ≥1,000 mg/l (Belebtschlamm Bakterien)

LC 50 (96h) &gt;1,000 mg/l (Danio rerio (Zebrafisch))

&gt;1,000 mg/l (Akute Fischtoxizität (Zebrafisch))

#### · 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.**

#### · Additional ecological information:

#### · General notes:

**Water hazard class 1 (Self-assessment): slightly hazardous for water.****Do not allow undiluted product or large quantities of it to reach ground water, water bodies or sewage system.**

#### · 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, ADN, IMDG, IATA

Void

### · 14.2 UN proper shipping name

#### · ADR, ADN, IMDG, IATA

Void

### · 14.3 Transport hazard class(es)

#### · ADR, ADN, IMDG, IATA

#### · Class

Void

### · 14.4 Packing group

#### · ADR, IMDG, IATA

Void

### · 14.5 Environmental hazards:

#### · Marine pollutant:

No

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· 14.6 Special precautions for user	Not applicable.
· 14.7 Transport in bulk according to Annex II of Marpol and the IBC Code	Not applicable.
· Transport/Additional information:	Not classified as dangerous in the meaning of transport regulations.
· UN "Model Regulation":	Void

## 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

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**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**

· <b>New Zealand Inventory of Chemicals</b>
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<b>All ingredients are listed.</b>
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· <b>New Zealand HSNO Hazard Classes and Categories</b>
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<b>None of the ingredients is listed.</b>
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- **Directive 2012/18/EU**
- **Named dangerous substances - ANNEX I**
- **15.2 Chemical safety assessment:**

**None of the ingredients is listed.**

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

## SECTION 16: Other information

**Chapters which have been revised from the previous issue are marked "\*\*\*".**

**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.**  
**H332 Harmful if inhaled.**  
**H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.**  
**H335 May cause respiratory irritation.**  
**H351 Suspected of causing cancer.**  
**H373 May cause damage to organs through prolonged or repeated exposure.**

- **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**

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**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**

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

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

**Resp. Sens. 1: Respiratory sensitisation – Category 1**

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

**Carc. 2: Carcinogenicity – Category 2**

**STOT SE 3: Specific target organ toxicity (single exposure) – Category 3**

**STOT RE 2: Specific target organ toxicity (repeated exposure) – 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.**

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