

## Safety Data Sheet

according to WHS Regulations

Printing date 13.07.2018

Version number 3

Revision: 13.07.2018

Hazardous according to criteria of Australian Safety and Compensation Council.

### 1 Identification

- **Product identifier**
- **Trade name** Okapol SH Komp. B
- **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
- **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 environmental 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**



skull and crossbones

Acute Tox. 1 H330 Fatal if inhaled.



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 1 H372 Causes damage to organs through prolonged or repeated exposure.



Skin Irrit. 2 H315 Causes skin irritation.

Eye Irrit. 2A H319 Causes serious eye irritation.

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

STOT SE 3 H335 May cause respiratory irritation.

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- Label elements
- GHS label elements
- Hazard pictograms

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



GHS06 GHS08

- Signal word
- Hazard-determining components of labelling:
- Hazard statements

**Danger**

*diphenylmethanediisocyanate, isomeres and homologues*  
**Fatal if inhaled.**

**Causes skin irritation.**

**Causes serious eye irritation.**

**May cause allergy or asthma symptoms or breathing difficulties if inhaled.**

**May cause an allergic skin reaction.**

**Suspected of causing cancer.**

**May cause respiratory irritation.**

**Causes damage to organs through prolonged or repeated exposure.**

- Precautionary statements

**Keep out of reach of children.**

**Obtain special instructions before use.**

**Do not handle until all safety precautions have been read and understood.**

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

**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.**

**[In case of inadequate ventilation] wear respiratory protection.**

**IF ON SKIN: Wash with plenty of water.**

**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.**

**IF exposed or concerned: Get medical advice/attention.**

**Specific treatment is urgent (see on this label).**

**Get medical advice/attention if you feel unwell.**

**Take off contaminated clothing and wash it before reuse.**

**If skin irritation or rash occurs: Get medical advice/attention.**

**If eye irritation persists: Get medical advice/attention.**

**If experiencing respiratory symptoms: Call a POISON CENTER/doctor.**

**Store in a well-ventilated place. Keep container tightly closed.**

**Store locked up.**

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

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- **Additional information:** *Restricted to professional users*
- **Other hazards**
- **Results of PBT and vPvB assessment**
- **PBT:** *Not applicable.*
- **vPvB:** *Not applicable.*

### 3 Composition and Information on Ingredients

- **Chemical characterisation: Substances**
- **CAS No. Designation:** *9016-87-9 diphenylmethanediisocyanate, isomeres and homologues*
- **Identification number(s):**
- **Index number:** *615-005-00-9*
- **Chemical characterisation: Mixtures**
- **Description:** *Mixture of the substances listed below with nonhazardous additions.*

#### · **Dangerous components:**

CAS: 9016-87-9	diphenylmethanediisocyanate, isomeres and homologues	50-100%
	 <b>Acute Tox. 1, H330</b>  <b>Resp. Sens. 1, H334; Carc. 2, H351; STOT RE 1, H372</b>  <b>Skin Irrit. 2, H315; Eye Irrit. 2A, 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.*

### 4 First Aid Measures

- **Description of first aid measures**
- **General information** *Immediately remove contaminated clothing.  
Remove breathing apparatus only after soiled clothing has been completely removed.  
In case of irregular breathing or respiratory arrest provide artificial respiration.*
- **After inhalation** *Supply fresh air or oxygen; call for doctor.  
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.*
- **Information for doctor**
- **Most important symptoms and effects, both acute and delayed** *No further relevant information available.*

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- 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 Ensure adequate ventilation  
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).  
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.  
Open and handle container with care.  
Prevent formation of aerosols.
- Information about protection against explosions and fires: Keep breathing equipment ready.
- 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.

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· Specific end use(s)      No further relevant information available.

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### 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: 9016-87-9 diphenylmethanediisocyanate, isomers and homologues

WES	Short-term value: 0.07 mg/m <sup>3</sup>
	Long-term value: 0.02 mg/m <sup>3</sup>
	Sen, as -NCO

· Additional information:      The lists that were valid during the compilation were used as basis.

 · 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.  
 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.

· Material of gloves

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  
 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 through time has to be found out by the manufacturer of the protective gloves and has to be observed.  
 Tightly sealed safety glasses.

· Eye protection:

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 · **Body protection:** Safety shoes, sealed working clothing.

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### 9 Physical and Chemical Properties

· Information on basic physical and chemical properties

 · **Appearance:**

Form:	Fluid
Colour:	Brown
Smell:	Weak, characteristic
Odour threshold:	Not determined.

· pH-value: n.a.

 · **Change in condition**

Melting point/freezing point:	41 °C
Initial boiling point and boiling range:	>200 °C

· Flash point: &gt; 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:**

Lower:	Not determined.
Upper:	Not determined.

· Steam pressure at 25 °C: 0.0002 hPa

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.

· 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:** acids, water
- **Hazardous decomposition products:** None known.

### 11 Toxicological Information

- Information on toxicological effects
- Acute toxicity

- LD/LC50 values that are relevant for classification:

**CAS: 9016-87-9 diphenylmethanediisocyanate, isomers 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** Irritant for skin and mucous membranes.
- **Serious eye damage/irritation** Irritant effect.
- **Respiratory or skin sensitisation** Sensitization possible by inhalation.  
Sensitization possible by skin contact.
- **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.

- **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  
Irritant  
Very toxic

### 12 Ecological Information

- Toxicity

- Aquatic toxicity:

**CAS: 9016-87-9 diphenylmethanediisocyanate, isomers and homologues**

**EC50(3h)** ≥1,000 mg/l (Belebtschlammbakterien)

**LC 50 (96h)** >1,000 mg/l (Danio rerio (Zebrafisch))

>1,000 mg/l (Akute Fischtoxizität (Zebrafisch))

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

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

### 14 Transport information

- |                                                                             |                                                                             |
|-----------------------------------------------------------------------------|-----------------------------------------------------------------------------|
| · <b>UN-Number</b>                                                          |                                                                             |
| · <b>ADG, ADN, IMDG, IATA</b>                                               | Void                                                                        |
| · <b>UN proper shipping name</b>                                            |                                                                             |
| · <b>ADG, ADN, IMDG, IATA</b>                                               | Void                                                                        |
| · <b>Transport hazard class(es)</b>                                         |                                                                             |
| · <b>ADG, ADN, IMDG, IATA</b>                                               |                                                                             |
| · <b>Class</b>                                                              | Void                                                                        |
| · <b>Packing group</b>                                                      |                                                                             |
| · <b>ADG, IMDG, IATA</b>                                                    | Void                                                                        |
| · <b>Environmental hazards:</b>                                             |                                                                             |
| · <b>Marine pollutant:</b>                                                  | No                                                                          |
| · <b>Special precautions for user</b>                                       | Not applicable.                                                             |
| · <b>Transport in bulk according to Annex II of Marpol and the IBC Code</b> | Not applicable.                                                             |
| · <b>Transport/Additional information:</b>                                  | <i>Not classified as dangerous in the meaning of transport regulations.</i> |
| · <b>UN "Model Regulation":</b>                                             | Void                                                                        |

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### 15 Regulatory information

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

· Australian Inventory of Chemical Substances

All ingredients are listed.

· Standard for the Uniform Scheduling of Medicines and Poisons

None of the ingredients is listed.

· GHS label elements

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

· Hazard pictograms



GHS06 GHS08

· Signal word

Danger

· Hazard-determining components of labelling:

diphenylmethanediisocyanate, isomeres and homologues

· Hazard statements

Fatal if inhaled.

Causes skin irritation.

Causes serious eye irritation.

May cause allergy or asthma symptoms or breathing difficulties if inhaled.

May cause an allergic skin reaction.

Suspected of causing cancer.

May cause respiratory irritation.

Causes damage to organs through prolonged or repeated exposure.

· Precautionary statements

Keep out of reach of children.

Obtain special instructions before use.

Do not handle until all safety precautions have been read and understood.

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

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.

[In case of inadequate ventilation] wear respiratory protection.

IF ON SKIN: Wash with plenty of water.

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.

IF exposed or concerned: Get medical advice/attention.

Specific treatment is urgent (see on this label).

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Get medical advice/attention if you feel unwell.  
 Take off contaminated clothing and wash it before reuse.  
 If skin irritation or rash occurs: Get medical advice/attention.  
 If eye irritation persists: Get medical advice/attention.  
 If experiencing respiratory symptoms: Call a POISON CENTER/doctor.  
 Store in a well-ventilated place. Keep container tightly closed.  
 Store locked up.  
 Dispose of contents/container in accordance with local/regional/national/international regulations.

- Directive 2012/18/EU
  - Named dangerous substances - ANNEX I
  - Chemical safety assessment: A Chemical Safety Assessment has not been carried out.
- None of the ingredients is listed.

### 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.
  - H330 Fatal if inhaled.
  - H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.
  - H335 May cause respiratory irritation.
  - H351 Suspected of causing cancer.
  - H372 Causes 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
  - 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. 1: Acute toxicity – Category 1
  - Skin Irrit. 2: Skin corrosion/irritation – Category 2
  - Eye Irrit. 2A: Serious eye damage/eye irritation – Category 2A
  - 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

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- \* Data compared to the previous version altered.
- Comment

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STOT RE 1: Specific target organ toxicity (repeated exposure) – Category 1

**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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