

Safety data sheet
according to 1907/2006/EC, Article 31

Printing date 02.02.2022

Version number 16

Revision: 02.02.2022

SECTION 1: Identification of the substance/mixture and of the company/undertaking

- 1.1 Product identifier
- Trade name: **AQUAFIN-P4 (B-Komp.)**
- 1.2 Relevant identified uses of the substance or mixture and uses advised against
No further relevant information available.
- **Application of the substance / the mixture** Reaction resin
- 1.3 Details of the supplier of the safety data sheet
- **Manufacturer/Supplier:**
SCHOMBURG GmbH & Co. KG
Aquafinstr. 2-8
D-32760 Detmold
Germany

Tel: ++49 (0)5231/953-00
email: info@schomburg.de
- **Informing department:**
Product Safety Department

Tel: ++49 (0)5231/953-770
email: SDB@schomburg.de

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.

- 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, GHS08
- **Signal word** Danger
- **Hazard-determining components of labelling:**
diphenylmethanediisocyanate, isomeres and homologues
methylenediphenyl diisocyanate
Poly[oxy(methyl-1,2-ethanediyl)], .alpha.-hydro.-omega.-hydroxy-, polymer with 1,1'-
methylenebis[isocyanatobenzene]
diphenylmethane-2,4'-diisocyanate

(Contd. on page 2)

Trade name: AQUAFIN-P4 (B-Komp.)

(Contd. of page 1)

Hazard statements

- 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

- P260 Do not breathe dust/fume/gas/mist/vapours/spray.
- P280 Wear protective gloves/protective clothing/eye protection/face protection/hearing protection.
- P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.
- P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
- P405 Store locked up.
- P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

Additional information:

- 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**3.2 Chemical characterisation: Mixtures**

- Description:** Preparation based on Diphenylmethan-Diisocyanat-Prepolymers. (MDI)

Dangerous components:

CAS: 9016-87-9 Index number: 615-005-00-9	diphenylmethanediisocyanate, isomeres and homologues ⚠ Resp. Sens. 1, H334; Carc. 2, H351; STOT RE 2, H373; ⚠ Acute Tox. 4, H332; Skin Irrit. 2, H315; Eye Irrit. 2, H319; Skin Sens. 1, H317; STOT SE 3, H335 Specific concentration limits: Eye Irrit. 2; H319: C ≥ 5 % Skin Irrit. 2; H315: C ≥ 5 % Resp. Sens. 1; H334: C ≥ 0.1 % STOT SE 3; C ≥ 5 %	25-50%
CAS: 108-32-7 EINECS: 203-572-1 Index number: 607-194-00-1	propylene carbonate ⚠ Eye Irrit. 2, H319	10-25%
CAS: 39420-98-9 Polymer	Poly[oxy(methyl-1,2-ethanediyl)], .alpha.-hydro.-omega.-hydroxy-, polymer with 1,1'-methylenebis[isocyanatobenzene] ⚠ Resp. Sens. 1, H334; Carc. 2, H351; STOT RE 2, H373; ⚠ Skin Irrit. 2, H315; Eye Irrit. 2, H319; Skin Sens. 1, H317; STOT SE 3, H335	10-25%
CAS: 26447-40-5 EINECS: 247-714-0 Index number: 615-005-00-9	methylenediphenyl diisocyanate ⚠ Resp. Sens. 1, H334; Carc. 2, H351; STOT RE 2, H373; ⚠ Acute Tox. 4, H332; Skin Irrit. 2, H315; Eye Irrit. 2, H319; Skin Sens. 1, H317; STOT SE 3, H335 Specific concentration limits: Eye Irrit. 2; H319: C ≥ 5 % Skin Irrit. 2; H315: C ≥ 5 % Resp. Sens. 1; H334: C ≥ 0.1 % STOT SE 3; C ≥ 5 %	2.5-10%

(Contd. on page 3)

Trade name: AQUAFIN-P4 (B-Komp.)

(Contd. of page 3)

Follow the emergency-plan.
Burst- and explosion-danger by increasing pressure.
In case of fire chill the container with water spray.

SECTION 6: Accidental release measures

- **6.1 Personal precautions, protective equipment and emergency procedures**
Ensure adequate ventilation
Bring persons out of danger.
Wear protective equipment. Keep unprotected persons away.
- **6.2 Environmental precautions:** Do not allow product to reach sewage system or water bodies.
- **6.3 Methods and material for containment and cleaning up:**
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
Ensure adequate ventilation.
- **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**
Ensure good ventilation/exhaustion at the workplace.
Prevent formation of aerosols.
Keep away from children.
- **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:**
The Product reacts with water and CO₂-Gas will be given off.
In tight closed containers pressure may arise and the cover can burst.
- **Information about storage in one common storage facility:**
Please follow the rules of the VCI-Storage-Concept for chemicals.
- **Further information about storage conditions:**
Store container in a well ventilated position.
Store in a cool place.
Keep container tightly sealed.
Store in a locked cabinet and out of the reach of children.
- **7.3 Specific end use(s)** No further relevant information available.

SECTION 8: Exposure controls/personal protection

- **8.1 Control parameters**
- **Additional information about design of technical systems:**
It must be possible to wash the skin in the working area.
Eye-wash bottle must be available.
- **Components with critical values that require monitoring at the workplace:** _____
- 9016-87-9 diphenylmethanediisocyanate, isomeres and homologues (25-50%)**
WEL Short-term value: 0.07 mg/m³
Long-term value: 0.02 mg/m³
Sen; as -NCO
- 5873-54-1 diphenylmethane-2,4'-diisocyanate (2.5-10%)**
WEL Short-term value: 0.07 mg/m³
Long-term value: 0.02 mg/m³
Sen; as -NCO

(Contd. on page 5)

Trade name: **AQUAFIN-P4 (B-Komp.)**

(Contd. of page 4)

· **Ingredients with biological limit values:**

5873-54-1 diphenylmethane-2,4'-diisocyanate (2.5-10%)

BMGV 1 µmol creatinine/mol

Medium: urine

Sampling time: At the end of the period of exposure

Parameter: isocyanate-derived diamine

· **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**

The usual precautionary measures should be adhered to in handling the chemicals.

Instantly remove any soiled and impregnated garments.

Do not inhale gases / fumes / aerosols.

Avoid contact with the eyes and skin.

Be sure to clean skin thoroughly after work and before breaks.

When the material is hardened on the skin, remove it carefully mechanically.

· **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.

Recommended Filter type A

· **Protection of hands:** Hand Protection: Nitril-rubber-latex-gloves.

· **Material of gloves**

Nitril-rubber-latex-gloves II R: Thickness $\geq 0,5\text{mm}$; Penetration time $\geq 480\text{ min}$

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.

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

· **Body protection:**

Protective work clothing.

Contaminated protection clothes must be cleaned carefully before reuse.

SECTION 9: Physical and chemical properties

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

· **General Information**

· **Appearance:**

Form: Liquid

Colour: Dark brown

· **Smell:** earthy, something musty.

· **Odour threshold:** Not determined.

· **pH-value:** Mixture is non-soluble (in water).

· **Change in condition**

Melting point/freezing point: Not determined

Initial boiling point and boiling range: Not determined

· **Flash point:** Not applicable

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

· **Decomposition temperature:** Not determined.

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

(Contd. on page 6)

Safety data sheet
according to 1907/2006/EC, Article 31

Printing date 02.02.2022

Version number 16

Revision: 02.02.2022

Trade name: **AQUAFIN-P4 (B-Komp.)**

(Contd. of page 5)

· Explosive properties:	Product is not explosive.
· Critical values for explosion:	
Lower:	Not determined.
Upper:	Not determined.
· Steam pressure:	Not determined.
· Density at 20 °C	1.21 g/cm ³
· Relative density	Not determined.
· Vapour density	Not determined.
· Evaporation rate	Not determined.
· Solubility in / Miscibility with Water:	Not miscible or difficult to mix
· Partition coefficient: n-octanol/water:	Not determined.
· Viscosity:	
dynamic at 20 °C:	23 mPas
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.
- **10.2 Chemical stability**
- **Thermal decomposition / conditions to be avoided:**
No decomposition if used according to specifications.
- **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
 - Alkoholes
 - Alkalis
 - Amine
- **10.6 Hazardous decomposition products:** No dangerous decomposition products known

SECTION 11: Toxicological information

- **11.1 Information on toxicological effects**
- **Acute toxicity**
Harmful if inhaled.
- **LD/LC50 values that are relevant for classification:**
- 9016-87-9 diphenylmethanediisocyanate, isomeres and homologues**
 - Oral LD50 >10,000 mg/kg (rats) (OECD 401)
 - Dermal LD50 >9,400 mg/kg (rabbit) (OECD 402)
- 5873-54-1 diphenylmethane-2,4'-diisocyanate**
 - Oral LD50 >2,000 mg/kg (rats) (84/449/EWG, B.1)
 - Dermal LD50 >9,400 mg/kg (Kan) (OECD 402)
 - EC/LC50 (24h) >1,000 mg/l (Daphnia magna) (OECD 202)
- **Primary irritant effect:**
- **Skin corrosion/irritation**
The product has an irritate-effect.
Causes skin irritation.

(Contd. on page 7)

Trade name: AQUAFIN-P4 (B-Komp.)

(Contd. of page 6)

- **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.
- **Additional toxicological information:** Sensitizing
- **CMR effects (carcinogenicity, 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.
- **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:**
- **9016-87-9 diphenylmethanediisocyanate, isomeres and homologues**
- EC 50 >1,000 mg/kg (dam) (OECD 202 (24 h))
>1,640 mg/kg (Grünalge (Scenedesmus subspicatus)) (OECD 201)
- LC50/96h >1,000 mg/l (zebra danio) (OECD 203)
- EC50 (3h) >100 mg/l (Atmungshem. von kommunalem Belebtschlamm) (OECD 209)
- ERC50 >1,640 mg/l (Grünalge (Scenedesmus subspicatus)) (OECD 201 (72 h))
- NOEC >1,000 mg/kg (Avena sativa) (OECD 208 (14 d))
>1,000 mg/kg (Eisenia fetida) (OECD 207 (14 d))
>1,000 mg/kg (Lactuca sativa) (OECD 208 (14 d))
- NOEC >10 mg/l (dam) (OECD 202 (21 d))
- **5873-54-1 diphenylmethane-2,4'-diisocyanate**
- LC50/96h >1,000 mg/l (zebra danio) (OECD 203)
- EC50 (3h) >100 mg/l (Atmungshem. von kommunalem Belebtschlamm) (OECD 209)
- ERC50 >1,640 mg/l (Scenedesmus subspicatus) (OECD 201 (72 h))
- NOEC >1,000 mg/kg (Avena sativa) (OECD 208 (14 d))
>1,000 mg/kg (Eisenia fetida) (OECD 207 (14 d))
>1,000 mg/kg (Lactuca sativa) (OECD 208 (14 d))
- NOEC >10 mg/l (Daphnia magna) (OECD 202 (21 d))
- **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.

GB

(Contd. on page 8)

Safety data sheet
according to 1907/2006/EC, Article 31

Printing date 02.02.2022

Version number 16

Revision: 02.02.2022

Trade name: **AQUAFIN-P4 (B-Komp.)**

(Contd. of page 7)

SECTION 13: Disposal considerations

- **13.1 Waste treatment methods**
- **Recommendation**
Must not be disposed of together with household garbage. Do not allow product to reach sewage system.
- **Uncleaned packagings:**
- **Recommendation:** Disposal must be made according to official regulations.

SECTION 14: Transport information

- | | |
|---|-----------------|
| · 14.1 UN-Number
· ADR, IMDG, IATA | Void |
| · 14.2 UN proper shipping name
· ADR, 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: | Not applicable. |
| · 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. |
| · UN "Model Regulation": | Void |

SECTION 15: Regulatory information

- **15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**
- **Directive 2012/18/EU**
- **Named dangerous substances - ANNEX I** None of the ingredients is listed.
- **National regulations**
- **Technical instructions (air):**
- **Class Share in %**
- **I** **49.3**
- **NK** **17.5**
- **15.2 Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

SECTION 16: Other information

These data are based on our present knowledge. However, they shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

- **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.

(Contd. on page 9)

Trade name: AQUAFIN-P4 (B-Komp.)

(Contd. of page 8)

H335 May cause respiratory irritation.

H351 Suspected of causing cancer.

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

- **Department issuing data specification sheet:** Environment protection department.

- **Contact:** Environment protection department.

- **Abbreviations and acronyms:**

ADR: Accord relatif au transport international 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)

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.**