

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

- 1.1 Product identifier
- Trade name: **AQUAFIN-P1**
- Article number: 205090
- 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
Aquafinstr. 2-8
D-32760 Detmold
Germany

Tel: ++49 (0)5231/953-00
Fax: ++49 (0)5231/953-123
email: info@schomburg.de
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- **Informing department:**
Product Safety Department

Tel: ++49 (0)5231/953-193
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SECTION 2: Hazards identification

- 2.1 Classification of the substance or mixture
- Classification according to Regulation (EC) No 1272/2008



GHS08 health hazard

Resp. Sens. 1 H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.
Carc. 2 H351 Suspected of causing cancer.



GHS07

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.

- Classification according to Directive 67/548/EEC or Directive 1999/45/EC



Xn; Harmful

R20-40-48/20: Harmful by inhalation. Limited evidence of a carcinogenic effect. Harmful: danger of serious damage to health by prolonged exposure through inhalation.



Xn; Sensitising

R42/43: May cause sensitisation by inhalation and skin contact.



Xi; Irritant

R36/37/38: Irritating to eyes, respiratory system and skin.

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- **Information concerning particular hazards for human and environment:**

The product may not leak out in sewerage system, stretch of water or soil.

The product has to be labelled due to the calculation procedure of the "General Classification guideline for preparations of the EU" in the latest valid version.

- **Classification system:**

The classification is in line with current EC lists. It is expanded, however, by information from technical literature and by information furnished by supplier companies.

- **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

- **Hazard statements**

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.

- **Precautionary statements**

P285 In case of inadequate ventilation wear respiratory protection.

P261 Avoid breathing dust/fume/gas/mist/vapours/spray.

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

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:**

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:**

9016-87-9 diphenylmethanediisocyanate, isomeres and homologues	50-100%
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☒ Xn R20-40-48/20; ☒ Xn R42/43; ☒ Xi R36/37/38

Carc. Cat. 3

⚠ Resp. Sens. 1, H334; Carc. 2, H351; ⚠ Acute Tox. 4, H332; Skin Irrit. 2, H315; Eye Irrit. 2, H319; Skin Sens. 1, H317; STOT SE 3, H335

6425-39-4 2,2-Dimorpholinodiethylether	< 2.5%
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☒ C R34

⚠ Skin Corr. 1B, H314

- **Additional information** For the wording of the listed risk phrases refer to section 16.

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SECTION 4: First aid measures

- **4.1 Description of first aid measures**
- **General information**
Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.
Personal protection for the First Aider.
- **After inhalation** Supply fresh air or oxygen; call for doctor.
- **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**
Do not induce vomiting; instantly call for medical help.
Show the pack or the label to the 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: Firefighting measures

- **5.1 Extinguishing media**
- **Suitable extinguishing agents**
CO₂, extinguishing powder or water jet. Fight larger fires with water jet or alcohol-resistant foam.
- **5.2 Special hazards arising from the substance or mixture**
In case of fire unhealthy gas/vapour is formed.
- **5.3 Advice for firefighters**
- **Protective equipment:** Wear self-contained breathing apparatus.
- **Additional information**
Dispose of fire debris and contaminated fire fighting water in accordance with official regulations.
Follow the emergency-plan.

SECTION 6: Accidental release measures

- **6.1 Personal precautions, protective equipment and emergency procedures**
Wear protective equipment. Keep unprotected persons away.
Ensure adequate ventilation
- **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).
- **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.

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- **7.2 Conditions for safe storage, including any incompatibilities**
- **Storage**
- **Requirements to be met by storerooms and containers:**
Store in cool location.
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:**
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

- **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.
- **8.1 Control parameters**
- **Components with critical values that require monitoring at the workplace:**
9016-87-9 diphenylmethanediisocyanate, isomeres and homologues (50-100%)
WEL Short-term value: 0.07 mg/m³
Long-term value: 0.02 mg/m³
Sen; as -NCO
- **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.
Avoid contact with the eyes and skin.
Be sure to clean skin thoroughly after work and before breaks.
- **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:** Hand Protection: Nitril-rubber-latex-gloves.
- **Material of gloves**
Butyl rubber II R: Thickness ≥ 0,5mm; Break through time ≥ 480 min
- **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
- **Body protection:** Protective work clothing.

SECTION 9: Physical and chemical properties

- **9.1 Information on basic physical and chemical properties**
- **General Information**
- **Appearance:**

Form:	Fluid
Colour:	Brown
Smell:	Characteristic

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|--|
| · Change in condition
Melting point/Melting range: Not determined
Boiling point/Boiling range: > 260 °C |
| · Flash point: > 200 °C |
| · Ignition temperature: >600 °C |
| · Self-inflammability: Product is not selfigniting. |
| · Danger of explosion: Product is not explosive. |
| · Density at 20 °C 1.14 g/cm ³ |
| · Solubility in / Miscibility with Water: Not miscible or difficult to mix |
| · Viscosity:
dynamic at 20 °C: 425 mPas |
| · 9.2 Other information No further relevant information available. |

SECTION 10: Stability and reactivity

- **10.1 Reactivity**
- **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:** No further relevant information available.
- **10.6 Hazardous decomposition products:** No dangerous decomposition products known

SECTION 11: Toxicological information

- **11.1 Information on toxicological effects**
 - **Acute toxicity:**
 - **LD/LC50 values that are relevant for classification:**
-
- 9016-87-9 diphenylmethanediisocyanate, isomeres and homologues**
- | | | |
|------------|----------|----------------------|
| Oral | LD50 | >5000 mg/kg (rats) |
| Dermal | LD50 | >5000 mg/kg (rabbit) |
| Inhalative | LC50/4 h | 490 mg/l (rats) |
- 6425-39-4 2,2-Dimorpholinodiethylether**
- | | | |
|--------|------|---------------------|
| Oral | LD50 | 2025 mg/kg (rats) |
| Dermal | LD50 | 3038 mg/kg (rabbit) |
- **Primary irritant effect:**
 - **on the skin:** Irritant for skin and mucous membranes.
 - **on the eye:** Irritant effect.
 - **Sensitisation:**
Sensitization possible by inhalation.
Sensitization possible by skin contact.
 - **CMR effects (carcinogenity, mutagenicity and toxicity for reproduction)**
Carc. 2

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SECTION 12: Ecological information

- **12.1 Toxicity**
- **Aquatic toxicity:**
- 9016-87-9 diphenylmethanediisocyanate, isomeres and homologues**
- EC50 (3h) = > 1000 mg/l (activated sludge bacteria)
- LC 0 (96h) >1000 mg/l (zebra danio)
- >1000 mg/l (acute fishtoxicity zebrafish)
- **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.
- **Ecotoxic effects:**
- 9016-87-9 diphenylmethanediisocyanate, isomeres and homologues**
- EC 50 (24h) >1000 mg/l (Daphnia magna)
- >100 mg/l (E. Coli)
- **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**
- Must not be disposed of together with household garbage. Do not allow product to reach sewage system.
- **European waste catalogue**
- 07 00 00 WASTES FROM ORGANIC CHEMICAL PROCESSES
- 07 02 00 wastes from the MFSU of plastics, synthetic rubber and man-made fibres
- 07 02 08 other still bottoms and reaction residues
- **Uncleaned packagings:**
- **Recommendation:** Disposal must be made according to official regulations.

SECTION 14: Transport information

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|---|--------------|
| <ul style="list-style-type: none"> • 14.1 UN-Number • ADR, ADN, IMDG, IATA | Void |
| <ul style="list-style-type: none"> • 14.2 UN proper shipping name • ADR • ADN, IMDG, IATA | Void
Void |
| <ul style="list-style-type: none"> • 14.3 Transport hazard class(es) • ADR, ADN, IMDG, IATA • Class | Void |
| <ul style="list-style-type: none"> • 14.4 Packing group • ADR, IMDG, IATA | Void |

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- | | |
|---|-----------------|
| • 14.5 Environmental hazards: | |
| • Marine pollutant: | No |
| • 14.6 Special precautions for user | Not applicable. |
| • 14.7 Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code | Not applicable. |
| • UN "Model Regulation": | - |

SECTION 15: Regulatory information

- **15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**
- **National regulations**
- **Technical instructions (air):**
- **Class Share in %**
- **I 70.0**
- **Water hazard class:**
Water hazard class 1 (Self-assessment): slightly hazardous for water.
The classification based on german instructions.
- **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**
- H314 Causes severe skin burns and eye damage.
- 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.
- R20 Harmful by inhalation.
- R34 Causes burns.
- R36/37/38 Irritating to eyes, respiratory system and skin.
- R40 Limited evidence of a carcinogenic effect.
- R42/43 May cause sensitisation by inhalation and skin contact.
- R48/20 Harmful: danger of serious damage to health by prolonged exposure through inhalation.
- **Department issuing data specification sheet:** Environment protection department.
- **Contact:** Mr. Guido Herfort
- **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)
LC50: Lethal concentration, 50 percent
LD50: Lethal dose, 50 percent
Acute Tox. 4: Acute toxicity, Hazard Category 4
Skin Corr. 1B: Skin corrosion/irritation, Hazard Category 1B
Skin Irrit. 2: Skin corrosion/irritation, Hazard Category 2

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

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Eye Irrit. 2: Serious eye damage/eye irritation, Hazard Category 2
Resp. Sens. 1: Sensitisation - Respirat., Hazard Category 1
Skin Sens. 1: Sensitisation - Skin, Hazard Category 1
Carc. 2: Carcinogenicity, Hazard Category 2
STOT SE 3: Specific target organ toxicity - Single exposure, Hazard Category 3

· * **Data compared to the previous version altered.**

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