

## Material Safety Data Sheet

according to 1907/2006/EC, Article 31

Printing date 08.08.2007

Revision: 05.06.2007

### 1 Identification of substance

- **Product details**
- **Trade name** **Aqua H-480-Härter**  
**Aidol dur Aqua Härter**
- **Article number:** 3806
- **Application of the substance / the preparation** Hardening agent/ Curing agent
- **Manufacturer/Supplier:**  
Remmers Baustofftechnik GmbH  
Postfach 1255  
D-49624 Lönningen / Germany  
Tel.: 05432/83-0  
Fax: 05432/3985
- **Informing department:**  
Product Safety department: Tel.: +49 (0)5432/83-138/-538  
E-Mail: sales@remmers.co.uk
- **Emergency information:**  
during working hours:  
U.K.: Tel.: +44 (0) 845 373 0103  
Far East: Tel.: +65( 0) 67410277  
Head Office Germany: Tel.: +49 (0)5432 83 185  
after working hours: Tel.: +49 (0)171/6428-297

### 2 Hazards identification

- **Hazard designation:**



Xi Irritant

- **Information pertaining to particular dangers for man and environment**  
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.  
R 10 Flammable.  
R 43 May cause sensitisation by skin contact.  
Contains isocyanates. See information supplied by the manufacturer
- **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.

### 3 Composition/information on ingredients

- **Chemical characterization**
- **Description:** Aliphatic Polyisocyanate in organic solvents

- **Dangerous components:**

CAS: 28182-81-2	aliphatic polyisocyanate	Xi; R 43	60-<80%
CAS: 108-65-6 EINECS: 203-603-9	2-methoxy-1-methylethyl acetate	Xi; R 10-36	20-<40%

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

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(Contd. of page 1)

## 4 First aid measures

- **After inhalation**  
Supply fresh air and call for doctor for safety reasons.  
In case of unconsciousness bring patient into stable side position for transport.
- **After skin contact** Wash immediately with water and soap and rinse thoroughly.
- **After eye contact** Rinse opened eye for several minutes under running water.
- **After swallowing** Drink plenty of water and provide fresh air. Call a doctor immediately.

## 5 Fire fighting measures

- **Suitable extinguishing agents**  
CO<sub>2</sub>, extinguishing powder or water jet. Fight larger fires with water jet or alcohol-resistant foam.
- **Protective equipment:** No special measures required.

## 6 Accidental release measures

- **Person-related safety precautions:** Not required.
- **Measures for environmental protection:** No special measures required.
- **Measures for cleaning/collecting:**  
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).

## 7 Handling and storage

- **Handling**
- **Information for safe handling:** Avoid contact with skin.
- **Information about protection against explosions and fires:** Keep ignition sources away - Do not smoke.
- **Storage**
- **Requirements to be met by storerooms and containers:** No special requirements.
- **Information on storage in a common storage facility:**  
Suitable material for containers and pipes: Light metals and their alloys.
- **Further information about storage conditions:** None.

## 8 Exposure controls and personal protection

- **Additional information about design of technical systems:** No further data; see item 7.

- **Components with limit values that require monitoring at the workplace:**

### 108-65-6 2-methoxy-1-methylethyl acetate

WEL	Short-term value: 548 mg/m <sup>3</sup> , 100 ppm
	Long-term value: 274 mg/m <sup>3</sup> , 50 ppm
	Sk

- **Additional information:** The lists that were valid during compilation were used as a basis.
- **Personal protective equipment**
- **General protective and hygienic measures**  
Immediately remove soiled, saturated clothing.  
Wash hands before pauses and after work.
- **Respiratory equipment:** Filter A (brown)
- **Protection of hands:** Impervious gloves
- **Material of gloves** Nitrile rubber, NBR
- **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.

(Contd. on page 3)

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Trade name **Aqua H-480-Härter**  
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(Contd. of page 2)

· **Eye protection:** Safety glasses recommended during refilling.

## 9 Physical and chemical properties:

### · General Information

**Form:** Fluid  
**Colour:** Clear  
**Odour:** Characteristic

### · Change in condition

**Melting point/Melting range:** Not determined  
**Boiling point/Boiling range:** Not determined

· **Flash point:** 57°C

· **Self-inflammability:** Product is not self-igniting.

· **Danger of explosion:** Product is not explosive.

### · Explosive Limits:

**Lower:** 1.5 Vol %  
**Upper:** 10.8 Vol %

· **Vapour pressure at 20°C:** 3.4 hPa

· **Density at 20°C** 1.07 g/cm<sup>3</sup>

### · Solubility in / Miscibility with

**Water:** Not miscible or difficult to mix

### · Viscosity:

**kinematic at 20°C:** 22 s (DIN 53211/4)

### · Solvent content:

**Organic solvents:** 24-25 %

## 10 Stability and reactivity

### · Thermal decomposition / conditions to be avoided:

No decomposition if used according to specifications.

· **Dangerous reactions** React with water forming amines.

· **Dangerous decomposition products:** No dangerous decomposition products known

## 11 Toxicological information

### · Acute toxicity:

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

#### 108-65-6 2-methoxy-1-methylethyl acetate

Oral	LD50	8500 mg/kg (Ratte)
Inhalative	LC50/4 h	35.7 mg/l (Ratte)

### · Primary irritant effect:

· **on the skin:** No irritating effect.

· **on the eye:** No irritating effect.

· **Sensitisation:** Sensitisation possible by skin contact.

### · Additional toxicological information:

The product shows the following dangers based on the calculation method of the General EC Classification Guidelines for Preparations as issued in the latest version:

(Contd. on page 4)

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Irritant

(Contd. of page 3)

- **Sensitisation** May cause sensitisation by skin contact.

## 12 Ecological information:

- **General notes:**

Water hazard class 2 : hazardous to water.

Do not allow product to reach ground water, bodies of water or sewage system.

Hazardous to drinking water even if small quantities leak into soil.

## 13 Notes on disposal:

- **Product:**

- **Recommendation**

Do not dispose of together with household garbage. Do not allow product to reach sewage system.

The given refuse codes are recommendations based upon the intended use of the product. Because of special use and disposal conditions at the user's, other codes may apply under other conditions.

- **European waste catalogue**

08 00 00	WASTES FROM THE MANUFACTURE, FORMULATION, SUPPLY AND USE (MFSU) OF COATINGS (PAINTS, VARNISHES AND VITREOUS ENAMELS), ADHESIVES, SEALANTS AND PRINTING INKS
08 05 00	wastes not otherwise specified in 08
08 05 01	waste isocyanates

- **Uncleaned packaging:**

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

## 14 Transport information

- **Land transport ADR/RID and GGVS/GGVE (cross-border/domestic)**

- **ADR/RID-GGVS/E Class:** -

- **Remarks:** In drums/vessels < 450 litre:  
Transport according to annotations 2.2.3.1.5 ADR because of high viscosity

- **Maritime transport IMDG/GGVSea:**

- **IMDG/GGVSea Class:** -

- **Marine pollutant:** No

- **Remarks:** In drums/vessels < 30 litres:  
Transport in accordance with paragraph 2.3.2.5 of the IMDG Code

- **Air transport ICAO-TI and IATA-DGR:**



- **ICAO/IATA Class:** 3

- **UN/ID Number:** 1993

- **Label:** 3

- **Packaging group:** III

- **Correct technical name:** FLAMMABLE LIQUID, N.O.S. (Solvent naphtha)

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(Contd. on page 5)

**Trade name** Aqua H-480-Härter  
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(Contd. of page 4)

## 15 Regulatory information

· **Designation according to EC guidelines:**

The product has been classified and labelled in accordance with EC Guidelines / Ordinance on Hazardous Materials (GefStoffV)

· **Code letter and hazard designation of product:**



Xi Irritant

· **Hazard-determining components of labelling:**

aliphatic polyisocyanate

· **Risk phrases:**

10 Flammable.

43 May cause sensitisation by skin contact.

· **Safety phrases:**

2 Keep out of the reach of children.

24/25 Avoid contact with skin and eyes.

37 Wear suitable gloves.

51 Use only in well-ventilated areas.

· **Special labelling of certain preparations:**

Contains isocyanates. See information supplied by the manufacturer

· **National regulations**

· **Technical instructions (air):**

Class	Proportion in %
NK	20-<40

· **Water hazard class:**

Water hazard class 2: hazardous to water.  
according to appendix 4 VwVwS

· **Other regulations, limitations and prohibition ordinances**

· **Professional Association (BG) Code of Practice: M 017 "Solvents"**

## 16 Other information:

This data is based on our present state of knowledge. However, it does not constitute a guarantee for any specific product features and does not establish a legally valid contractual relationship. Delivery specifications are found in the respective Technical Information Sheets.

· **Relevant R-phrases**

10 Flammable.

36 Irritating to eyes.

43 May cause sensitisation by skin contact.

· **Department issuing data specification sheet:** Product Safety department