

**Safety Data Sheet**

according to UK REACH Regulation

**PUR-Acryl Härter UH 175**

Revision date: 13.03.2025

Product code: 5175

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**SECTION 1: Identification of the substance/mixture and of the company/undertaking****1.1. Product identifier**

PUR-Acryl Härter UH 175

UFI: FAY5-Y93E-3VJG-5AEU**1.2. Relevant identified uses of the substance or mixture and uses advised against****Use of the substance/mixture**

Curing agent (crosslinking agent)

**Uses advised against**

Do not use for products which come into contact with the food stuffs.

**1.3. Details of the supplier of the safety data sheet**

Company name:	W+S GmbH Lackchemie und Aerosol-Technik	
Street:	Am Sportplatz 5	
Place:	D-63791 Karlstein-Dettingen	
Telephone:	+49 6188 9575-0	Telefax: +49 6188 9575-30
E-mail:	info@ws-lackchemie.de	
Contact person:	Abt. Produkt / Sicherheit	
Responsible Department:	Abt. Produkt / Sicherheit	

**1.4. Emergency telephone number:** +49 551-19240 GIZ-Nord Poisons Centre

**SECTION 2: Hazards identification****2.1. Classification of the substance or mixture****GB CLP Regulation**

Hazard categories:

Flammable liquids: Flam. Liq. 3

Respiratory or skin sensitisation: Skin Sens. 1

Hazardous to the aquatic environment: Aquatic Chronic 3

Hazard Statements:

Flammable liquid and vapour.

Harmful if inhaled.

May cause respiratory irritation.

May cause an allergic skin reaction.

Harmful to aquatic life with long lasting effects.

**2.2. Label elements****GB CLP Regulation****Hazard components for labelling**

Aliphatic Polyisocyanate

**Signal word:** Warning**Pictograms:****Hazard statements**

H226	Flammable liquid and vapour.
H332	Harmful if inhaled.
H335	May cause respiratory irritation.
H317	May cause an allergic skin reaction.
H412	Harmful to aquatic life with long lasting effects.

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**Precautionary statements**

- P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
- P280 Wear suitable gloves.
- P271 Use only outdoors or in a well-ventilated area.
- P370+P378 In case of fire: Use sand, dry chemical or alcohol-resistant foam to extinguish.
- P403+P235 Store in a well-ventilated place. Keep cool.

**Special labelling of certain mixtures**

- EUH204 Contains isocyanates. May produce an allergic reaction.

**SECTION 3: Composition/information on ingredients****3.2. Mixtures****Relevant ingredients**

CAS No	Chemical name			Quantity
	EC No	Index No	REACH No	
	Classification (GB CLP Regulation)			
28182-81-2	Aliphatic Polyisocyanate			50-100 %
	Skin Sens. 1; H317			
108-65-6	2-methoxy-1-methylethyl acetate			20 - < 25 %
	203-603-9	607-195-00-7		
	Flam. Liq. 3; H226			
112-07-2	2-butoxyethyl acetate; butylglycol acetate			15 - < 20 %
	203-933-3	607-038-00-2		
	Acute Tox. 4, Acute Tox. 4; H332 H312			
64742-95-6	Lösungsmittelnaphtha, leichte aromatische, Benzolgehalt <0,1%			1 - < 5 %
	918-668-5		01-2119455851-35	
	Flam. Liq. 3, STOT SE 3, STOT SE 3, Asp. Tox. 1, Aquatic Chronic 2; H226 H335 H336 H304 H411 EUH066			
123-86-4	n-butyl acetate			1 - < 5 %
	204-658-1	607-025-00-1		
	Flam. Liq. 3, STOT SE 3; H226 H336 EUH066			

Full text of H and EUH statements: see section 16.

**Specific Conc. Limits, M-factors and ATE**

CAS No	EC No	Chemical name	Quantity
	Specific Conc. Limits, M-factors and ATE		
108-65-6	203-603-9	2-methoxy-1-methylethyl acetate	20 - < 25 %
	dermal: LD50 = 7500 mg/kg; oral: LD50 = 8532 mg/kg		
112-07-2	203-933-3	2-butoxyethyl acetate; butylglycol acetate	15 - < 20 %
	inhalation: ATE = 11 mg/l (vapours); inhalation: ATE = 1,5 mg/l (dusts or mists); dermal: LD50 = 1500 mg/kg		
64742-95-6	918-668-5	Lösungsmittelnaphtha, leichte aromatische, Benzolgehalt <0,1%	1 - < 5 %
	inhalation: LC50 = 5,2 mg/l (vapours); dermal: LD50 = 3160 mg/kg; oral: LD50 = 2000 mg/kg		

**Further Information**

Full text of R-phrases: see section 16.

**SECTION 4: First aid measures****4.1. Description of first aid measures**

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**General information**

In case of accident or unwellness, seek medical advice immediately (show directions for use or safety data sheet if possible). Give nothing to eat or drink.

**After inhalation**

In case of inhaling spray mists, consult a doctor immediately and show him box or label. If victim is at risk of losing consciousness, position and transport on their side. Provide fresh air.

**After contact with skin**

After contact with skin, wash immediately with: Water. Subsequently wash off with: Polyethylene glykol 400. Medical treatment necessary. Remove contaminated, saturated clothing immediately. Change contaminated clothing. Wash thoroughly the body (shower or bath).

**After contact with eyes**

If product gets into the eye, keep eyelid open and rinse immediately with large quantities of water, for at least 5 minutes. Subsequently consult an ophthalmologist.

**After ingestion**

If swallowed, immediately drink: Water. Do NOT induce vomiting. Call a physician immediately.

**4.2. Most important symptoms and effects, both acute and delayed**

Frequently or prolonged contact with skin may cause dermal irritation.

**4.3. Indication of any immediate medical attention and special treatment needed**

In case of accident or unwellness, seek medical advice immediately (show directions for use or safety data sheet if possible).

**SECTION 5: Firefighting measures****5.1. Extinguishing media****Suitable extinguishing media**

Foam. Dry extinguishing powder. Carbon dioxide (CO<sub>2</sub>). ABC powder.

**Unsuitable extinguishing media**

High power water jet.

**5.2. Special hazards arising from the substance or mixture**

Combustible. Vapours may form explosive mixtures with air. Burning produces heavy smoke. In case of fire and/or explosion do not breathe fumes. Use water spray jet to protect personnel and to cool endangered containers. Contaminated fire-fighting water must be collected separately.

**Additional information**

Contaminated fire-fighting water must be collected separately. Remove product from area of fire. Co-ordinate fire-fighting measures to the fire surroundings.

**SECTION 6: Accidental release measures****6.1. Personal precautions, protective equipment and emergency procedures****General advice**

Do not breathe gas/fumes/vapour/spray. Avoid contact with skin, eyes and clothes. Wear personal protection equipment. Remove all sources of ignition. Provide adequate ventilation. See protective measures under point 7 and 8.

**6.2. Environmental precautions**

Do not allow to enter into surface water or drains. Explosion hazard. In case of gas escape or of entry into waterways, soil or drains, inform the responsible authorities.

**6.3. Methods and material for containment and cleaning up****Other information**

Absorb with liquid-binding material (sand, diatomaceous earth, acid- or universal binding agents). Treat the recovered material as prescribed in the section on waste disposal. Treat the recovered material as prescribed in the section on waste disposal.

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**6.4. Reference to other sections**

See protective measures under point 7 and 8.

**SECTION 7: Handling and storage****7.1. Precautions for safe handling****Advice on safe handling**

Preventive measures: If handled uncovered, arrangements with local exhaust ventilation have to be used. It is recommended to design all work processes always so that the following is excluded: inhalation. skin contact.

Eye contact. Take precautionary measures against static discharges.

**Advice on protection against fire and explosion**

Keep away from sources of ignition - No smoking. Vapours may form explosive mixtures with air.

**Advice on general occupational hygiene**

Remove contaminated, saturated clothing immediately. Protect skin by using skin protective cream. After work, wash hands and face. When using do not eat or drink. Observe the wear time limits according GefStoffV in combination with the rules for using respiratory protection apparatus (BGR 190).

**7.2. Conditions for safe storage, including any incompatibilities****Requirements for storage rooms and vessels**

Keep container tightly closed. Keep in a cool, well-ventilated place. Keep away from sources of ignition - No smoking. Keep only in the original container in a cool, well-ventilated place. Take precautionary measures against static discharges.

**Hints on joint storage**

Do not store together with: Material, rich in oxygen, oxidizing. Materials to avoid: Acid. Base. Material, combustible. Oxidizing agents.

**Further information on storage conditions**

Keep away from sources of ignition - No smoking. Protect against: heat. Keep/Store only in original container.

**SECTION 8: Exposure controls/personal protection****8.1. Control parameters****Exposure limits (EH40)**

CAS No	Substance	ppm	mg/m <sup>3</sup>	fibres/ml	Category	Origin
108-65-6	1-Methoxypropyl acetate	50	274		TWA (8 h)	WEL
		100	548		STEL (15 min)	WEL
112-07-2	2-Butoxyethyl acetate	20	133		TWA (8 h)	WEL
		50	332		STEL (15 min)	WEL
123-86-4	Butyl acetate	150	724		TWA (8 h)	WEL
		200	966		STEL (15 min)	WEL

**8.2. Exposure controls****Appropriate engineering controls**

Occupational exposure controls: Refer to chapter 7. No further action is necessary.

**Individual protection measures, such as personal protective equipment****Eye/face protection**

Suitable eye protection: Framed glasses. Goggles.

**Hand protection**

Tested protective gloves are to be worn:

Suitable material: NBR (Nitrile rubber). , Butyl rubber.

Thickness of glove material: >0,4mm

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penetration time (maximum wearing period): &gt;480min

DIN-/EN-Norms EN ISO 374

**Skin protection**

Suitable protective clothing: Lab apron.

**Respiratory protection**

Respiratory protection necessary at: exceeding exposure limit values insufficient ventilation . insufficient absorbtion.

**Environmental exposure controls**

Refer to chapter 7 No further action is necessary.

**SECTION 9: Physical and chemical properties****9.1. Information on basic physical and chemical properties**

Physical state:	liquid
Colour:	colourless
Odour:	characteristic
Odour threshold:	not determined

Boiling point or initial boiling point and boiling range:	136 °C	<b>Test method</b>
Lower explosion limits:	1,2 vol. %	
Upper explosion limits:	10,6 vol. %	
Flash point:	30 °C	
Auto-ignition temperature:	315 °C	
Vapour pressure:	5 hPa	
(at 20 °C)		
Density (at 20 °C):	1,047 g/cm <sup>3</sup>	DIN 53217

**9.2. Other information****Other safety characteristics**

Solvent content:	VOCV (CH): 47,29 %
	VOC (EU): 495,2 g/l
Solid content:	52,7 %
Flow time:	58 (3 mm) 3 DIN 53211
(at 20 °C)	

**SECTION 10: Stability and reactivity****10.1. Reactivity**

No risks worthy of mention. Please observe the information on the safety data sheet at all times.

**10.2. Chemical stability**

No risks worthy of mention. Please observe the information on the safety data sheet at all times.

**10.3. Possibility of hazardous reactions**

No risks worthy of mention. Please observe the information on the safety data sheet at all times.

**10.4. Conditions to avoid**Keep away from heat. Ignition hazard. Conditions to avoid:  
In case of warming: Danger of bursting container.**10.5. Incompatible materials**

Alkalis (alkalis). Acid. Oxidizing agents.

**10.6. Hazardous decomposition products**

Thermal decomposition can lead to the escape of irritating gases and vapors.

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**SECTION 11: Toxicological information****11.1. Information on hazard classes as defined in GB CLP Regulation****Acute toxicity**

Toxicological data are not available.

CAS No	Chemical name					
	Exposure route	Dose		Species	Source	Method
108-65-6	2-methoxy-1-methylethyl acetate					
	oral	LD50 mg/kg	8532	Rat	RTECS	
	dermal	LD50 mg/kg	7500	Rabbit		
112-07-2	2-butoxyethyl acetate; butylglycol acetate					
	dermal	LD50 mg/kg	1500	Rabbit	RTECS	
	inhalation vapour	ATE	11 mg/l			
	inhalation dust/mist	ATE	1,5 mg/l			
64742-95-6	Lösungsmittelnaphtha, leichte aromatische, Benzolgehalt <0,1%					
	oral	LD50 mg/kg	2000	Rat		
	dermal	LD50 mg/kg	3160	Rabbit.		
	inhalation (4 h) vapour	LC50	5,2 mg/l	Rat		

**Irritation and corrosivity**

@1501.B015550 Evaluation: non-irritant.

**Sensitising effects**

@1501.B015584

**STOT-repeated exposure**

Has de-greasing effect on the skin.

**Specific effects in experiment on an animal**

Rat LD50: 4300 - 5800 mg/kg Acute toxicity, oral

Data apply to the main component.

**Additional information on tests**

The classification was carried out according to the calculation method of the Preparations Directive (1999/45/EC).

**11.2. Information on other hazards****Further information**

Toxicological data are not available.

**SECTION 12: Ecological information****12.1. Toxicity**

Doesn't get into the sewage water as long as the process is carried out according to regulations.

Very toxic for Water fleas.

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CAS No	Chemical name					
	Aquatic toxicity	Dose	[h]   [d]	Species	Source	Method
108-65-6	2-methoxy-1-methylethyl acetate					
	Acute fish toxicity	LC50	161 mg/l	96 h	Pimephales promelas	
	Acute crustacea toxicity	EC50	408 mg/l	48 h	Daphnia magna	
112-07-2	2-butoxyethyl acetate; butylglycol acetate					
	Acute algae toxicity	ErC50	> 500 mg/l	72 h	Desmodesmus subspicatus	IUCLID
	Acute crustacea toxicity	EC50	37 mg/l	48 h	Daphnia magna	

**12.2. Persistence and degradability**

No data available

**12.3. Bioaccumulative potential**

No data available

**Partition coefficient n-octanol/water**

CAS No	Chemical name	Log Pow
108-65-6	2-methoxy-1-methylethyl acetate	0,43
112-07-2	2-butoxyethyl acetate; butylglycol acetate	1,51

**12.4. Mobility in soil**

No data available

**12.5. Results of PBT and vPvB assessment**

The substances in the mixture do not meet the PBT/vPvB criteria according to UK REACH.

No data available

**12.6. Endocrine disrupting properties**

This product does not contain a substance that has endocrine disrupting properties with respect to non-target organisms as no components meets the criteria.

**12.7. Other adverse effects**

No data available

**Further information**

Do not allow to enter into surface water or drains. The classification was carried out according to the calculation method of the Preparations Directive (1999/45/EC).

**SECTION 13: Disposal considerations****13.1. Waste treatment methods****Disposal recommendations**

Dispose of waste according to applicable legislation.

**List of Wastes Code - residues/unused products**

080111 WASTES FROM THE MANUFACTURE, FORMULATION, SUPPLY AND USE (MFSU) OF COATINGS (PAINTS, VARNISHES AND VITREOUS ENAMELS), ADHESIVES, SEALANTS AND PRINTING INKS; wastes from MFSU and removal of paint and varnish; waste paint and varnish containing organic solvents or other hazardous substances; hazardous waste

**List of Wastes Code - used product**

080111 WASTES FROM THE MANUFACTURE, FORMULATION, SUPPLY AND USE (MFSU) OF COATINGS (PAINTS, VARNISHES AND VITREOUS ENAMELS), ADHESIVES, SEALANTS AND PRINTING INKS; wastes from MFSU and removal of paint and varnish; waste paint and varnish containing organic solvents or other hazardous substances; hazardous waste

**List of Wastes Code - contaminated packaging**

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080111 WASTES FROM THE MANUFACTURE, FORMULATION, SUPPLY AND USE (MFSU) OF COATINGS (PAINTS, VARNISHES AND VITREOUS ENAMELS), ADHESIVES, SEALANTS AND PRINTING INKS; wastes from MFSU and removal of paint and varnish; waste paint and varnish containing organic solvents or other hazardous substances; hazardous waste

**Contaminated packaging**

Non-contaminated packages may be recycled. Handle contaminated packages in the same way as the substance itself. Hand over to officially registered waste disposal company.

**SECTION 14: Transport information****Land transport (ADR/RID)**

**14.1. UN number or ID number:** UN 1263  
**14.2. UN proper shipping name:** PAINT  
**14.3. Transport hazard class(es):** 3  
**14.4. Packing group:** III  
Hazard label: 3

Classification code: F1  
Special Provisions: 163 367 650  
Limited quantity: 5 L  
Excepted quantity: E1  
Transport category: 3  
Hazard No: 30  
Tunnel restriction code: D/E

**Inland waterways transport (ADN)**

**14.1. UN number or ID number:** UN 1263  
**14.2. UN proper shipping name:** Paint  
**14.3. Transport hazard class(es):** 3  
**14.4. Packing group:** III  
Hazard label: 3



Classification code: F1  
Special Provisions: 163 367 650  
Limited quantity: 5 L  
Excepted quantity: E1

**Marine transport (IMDG)**

**14.1. UN number or ID number:** UN 1263  
**14.2. UN proper shipping name:** PAINT  
**14.3. Transport hazard class(es):** 3  
**14.4. Packing group:** III  
Hazard label: 3



Special Provisions: 163, 223, 367, 955  
Limited quantity: 5 L  
Excepted quantity: E1  
EmS: F-E, S-E



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**Air transport (ICAO-TI/IATA-DGR)****14.1. UN number or ID number:**

UN 1263

**14.2. UN proper shipping name:**

PAINT

**14.3. Transport hazard class(es):**

3

**14.4. Packing group:**

III

Hazard label:

3



Special Provisions:

A3 A72 A192

Limited quantity Passenger:

10 L

Passenger LQ:

Y344

Excepted quantity:

E1

IATA-packing instructions - Passenger:

355

IATA-max. quantity - Passenger:

60 L

IATA-packing instructions - Cargo:

366

IATA-max. quantity - Cargo:

220 L

**14.5. Environmental hazards**

ENVIRONMENTALLY HAZARDOUS: No

**14.6. Special precautions for user**

No information available.

**14.7. Maritime transport in bulk according to IMO instruments**

No information available.

**SECTION 15: Regulatory information****15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture****EU regulatory information**

Restrictions on use (REACH, annex XVII):

Entry 3, Entry 28, Entry 40

Directive 2004/42/EC on VOC in  
paints and varnishes:

VOCV (CH): 47,29 %

VOC (EU): 495,2 g/l

**National regulatory information**

Employment restrictions:

Observe restrictions to employment for juveniles according to the 'juvenile work protection guideline' (94/33/EC). Observe employment restrictions under the Maternity Protection Directive (92/85/EEC) for expectant or nursing mothers.

Water hazard class (D):

2 - obviously hazardous to water

**15.2. Chemical safety assessment**

For this substance a chemical safety assessment has not been carried out.

**SECTION 16: Other information****Abbreviations and acronyms**

Flam. Liq: Flammable liquids

Acute Tox: Acute toxicity

Asp. Tox: Aspiration hazard

Skin Sens: Skin sensitisation

STOT SE: Specific target organ toxicity - single exposure

Aquatic Chronic: Chronic aquatic hazard

**Relevant H and EUH statements (number and full text)**

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H226	Flammable liquid and vapour.
H304	May be fatal if swallowed and enters airways.
H312	Harmful in contact with skin.
H317	May cause an allergic skin reaction.
H332	Harmful if inhaled.
H335	May cause respiratory irritation.
H336	May cause drowsiness or dizziness.
H411	Toxic to aquatic life with long lasting effects.
H412	Harmful to aquatic life with long lasting effects.
EUH066	Repeated exposure may cause skin dryness or cracking.
EUH204	Contains isocyanates. May produce an allergic reaction.

**Further Information**

The product is classified and labelled according to EC directives or corresponding national laws.

The above information describes exclusively the safety requirements of the product and is based on our present-day knowledge. The information is intended to give you advice about the safe handling of the product named in this safety data sheet, for storage, processing, transport and disposal. The information cannot be transferred to other products. In the case of mixing the product with other products or in the case of processing, the information on this safety data sheet is not necessarily valid for the new made-up material.

*(The data for the relevant ingredients were taken respectively from the last version of the sub-contractor's safety data sheet.)*