

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006



## Capalac PU-Härter

Version	Revision Date:	Print Date	Date of last issue: 14.11.2019
1.1	18.12.2020	22.12.2020	Date of first issue: 14.11.2019

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

#### 1.1 Product identifier

Trade name : Capalac PU-Härter

#### 1.2 Relevant identified uses of the substance or mixture and uses advised against

Use of the Sub-stance/Mixture : Polyurethane-resin-based coating material, solvent-containing

Recommended restrictions on use : within adequate application - none

#### 1.3 Details of the supplier of the safety data sheet

Company : Caparol Farben Lacke GmbH  
Roßdörfer Straße 50  
64372 Ober-Ramstadt

Telephone : +496154710  
Telefax : +4961547170222  
E-mail address Responsible/issuing person : msds@dr-rmi.com

#### 1.4 Emergency telephone number

Emergency telephone number 1 : +49613284463 GBK GmbH

### SECTION 2: Hazards identification

#### 2.1 Classification of the substance or mixture

##### Classification (REGULATION (EC) No 1272/2008)

Flammable liquids, Category 3	H226: Flammable liquid and vapour.
Skin irritation, Category 2	H315: Causes skin irritation.
Eye irritation, Category 2	H319: Causes serious eye irritation.
Skin sensitisation, Category 1	H317: May cause an allergic skin reaction.
Specific target organ toxicity - single exposure, Category 3, Central nervous system	H336: May cause drowsiness or dizziness.
Specific target organ toxicity - single exposure, Category 3, Respiratory system	H335: May cause respiratory irritation.

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006



## Capalac PU-Härter

Version	Revision Date:	Print Date	Date of last issue: 14.11.2019
1.1	18.12.2020	22.12.2020	Date of first issue: 14.11.2019

Specific target organ toxicity - repeated exposure, Category 2

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

Aspiration hazard, Category 1

H304: May be fatal if swallowed and enters airways.

### 2.2 Label elements

#### Labelling (REGULATION (EC) No 1272/2008)

Hazard pictograms :



Signal word : Danger

Hazard statements :

- H226 Flammable liquid and vapour.
- H304 May be fatal if swallowed and enters airways.
- H315 Causes skin irritation.
- H317 May cause an allergic skin reaction.
- H319 Causes serious eye irritation.
- H335 May cause respiratory irritation.
- H336 May cause drowsiness or dizziness.
- H373 May cause damage to organs through prolonged or repeated exposure.

Precautionary statements :

- P101 If medical advice is needed, have product container or label at hand.
- P102 Keep out of reach of children.

#### Prevention:

- P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
- P260 Do not breathe vapours/ spray.
- P271 Use only outdoors or in a well-ventilated area.
- P280 Wear protective gloves/ eye protection.

#### Response:

- P301 + P310 IF SWALLOWED: Immediately call a POISON CENTER/ doctor.
- P331 Do NOT induce vomiting.

#### Storage:

- P405 Store locked up.

#### Hazardous components which must be listed on the label:

3-Isocyanatomethyl-3,5,5-trimethylcyclohexyl isocyanate, oligomers  
n-butyl acetate

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006



## Capalac PU-Härter

Version	Revision Date:	Print Date	Date of last issue: 14.11.2019
1.1	18.12.2020	22.12.2020	Date of first issue: 14.11.2019

xylene  
3-isocyanatomethyl-3,5,5-trimethylcyclohexyl isocyanate

### 2.3 Other hazards

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

## SECTION 3: Composition/information on ingredients

### 3.2 Mixtures

Chemical nature : Polyisocyanate, solvent-containing

#### Components

Chemical name	CAS-No. EC-No. Index-No. Registration number	Classification	Concentration (% w/w)
3-Isocyanatomethyl-3,5,5-trimethylcyclohexyl isocyanate, oligomers	53880-05-0 500-125-5 01-2119488734-24	Skin Sens. 1; H317 STOT SE 3; H335 (No specific target organs noted)	>= 50 - < 70
n-butyl acetate	123-86-4 204-658-1 607-025-00-1 01-2119485493-29	Flam. Liq. 3; H226 STOT SE 3; H336 (Central nervous system)	>= 20 - < 30
xylene	1330-20-7 215-535-7 601-022-00-9 01-2119488216-32	Flam. Liq. 3; H226 Acute Tox. 4; H332 Acute Tox. 4; H312 Skin Irrit. 2; H315 Eye Irrit. 2; H319 STOT SE 3; H335 Asp. Tox. 1; H304 STOT RE 2; H373 Aquatic Chronic 3; H412	>= 10 - < 20
ethylbenzene	100-41-4 202-849-4 601-023-00-4 01-2119489370-35	Acute Tox. 4; H332 STOT RE 2; H373 Asp. Tox. 1; H304 Aquatic Chronic 3; H412 Flam. Liq. 2; H225	>= 2,5 - < 10
3-isocyanatomethyl-3,5,5-trimethylcyclohexyl isocyanate	4098-71-9 223-861-6 615-008-00-5 01-2119490408-31	Acute Tox. 1; H330 Skin Irrit. 2; H315 Eye Irrit. 2; H319 Resp. Sens. 1; H334 Skin Sens. 1; H317 STOT SE 3; H335	>= 0,025 - < 0,1

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006



## Capalac PU-Härter

Version	Revision Date:	Print Date	Date of last issue: 14.11.2019
1.1	18.12.2020	22.12.2020	Date of first issue: 14.11.2019

		Aquatic Chronic 2; H411	
--	--	----------------------------	--

For explanation of abbreviations see section 16.

## SECTION 4: First aid measures

### 4.1 Description of first aid measures

- General advice : Show this safety data sheet to the doctor in attendance.  
When symptoms persist or in all cases of doubt seek medical advice.  
Move out of dangerous area.  
First aider needs to protect himself.  
Never give anything by mouth to an unconscious person.
- If inhaled : Call a physician.  
If breathing is irregular or stopped, administer artificial respiration.  
If unconscious, place in recovery position and seek medical advice.  
If symptoms persist, call a physician.  
Move to fresh air.
- In case of skin contact : Do NOT use solvents or thinners.  
In case of contact, immediately flush skin with soap and plenty of water.  
Take off all contaminated clothing immediately.
- In case of eye contact : If eye irritation persists: Get medical advice/ attention.  
IF IN EYES: Rinse cautiously with water for several minutes.  
Remove contact lenses, if present and easy to do. Continue rinsing.
- If swallowed : Clean mouth with water and drink afterwards plenty of water.  
If accidentally swallowed obtain immediate medical attention.  
If swallowed, DO NOT induce vomiting.

### 4.2 Most important symptoms and effects, both acute and delayed

None known.

### 4.3 Indication of any immediate medical attention and special treatment needed

Treatment : No information available.

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006



## Capalac PU-Härter

Version	Revision Date:	Print Date	Date of last issue: 14.11.2019
1.1	18.12.2020	22.12.2020	Date of first issue: 14.11.2019

### SECTION 5: Firefighting measures

#### 5.1 Extinguishing media

Suitable extinguishing media : Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.  
Foam  
Carbon dioxide (CO<sub>2</sub>)

Unsuitable extinguishing media : Water

#### 5.2 Special hazards arising from the substance or mixture

Specific hazards during fire-fighting : Cool closed containers exposed to fire with water spray. In case of fire hazardous decomposition products may be produced such as:  
Carbon monoxide, carbon dioxide and unburned hydrocarbons (smoke).

#### 5.3 Advice for firefighters

Special protective equipment for firefighters : In the event of fire, wear self-contained breathing apparatus.

Further information : Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.  
Standard procedure for chemical fires.  
In the event of fire and/or explosion do not breathe fumes.

### SECTION 6: Accidental release measures

#### 6.1 Personal precautions, protective equipment and emergency procedures

Personal precautions : Do not get in eyes, on skin, or on clothing.  
When workers are facing concentrations above the exposure limit they must use appropriate certified respirators.  
Evacuate personnel to safe areas.  
Ensure adequate ventilation.  
Remove all sources of ignition.

#### 6.2 Environmental precautions

Environmental precautions : Prevent further leakage or spillage if safe to do so.  
If the product contaminates rivers and lakes or drains inform respective authorities.  
Do not flush into surface water or sanitary sewer system.

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006



## Capalac PU-Härter

Version	Revision Date:	Print Date	Date of last issue: 14.11.2019
1.1	18.12.2020	22.12.2020	Date of first issue: 14.11.2019

### 6.3 Methods and material for containment and cleaning up

Methods for cleaning up : Contain spillage, soak up with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and transfer to a container for disposal according to local / national regulations (see section 13).

### 6.4 Reference to other sections

For further information see Section 7 of the safety data sheet.

,For personal protection see section 8.,For disposal considerations see section 13.

## SECTION 7: Handling and storage

### 7.1 Precautions for safe handling

Advice on safe handling : For personal protection see section 8.  
Avoid exceeding the given occupational exposure limits (see section 8).  
Provide sufficient air exchange and/or exhaust in work rooms.  
Contains isocyanates. Please, attend to producer's advice.  
Liquid product may irritate and sensitize skin and respiratory tract and may cause allergic reaction. Do not inhale vapours.  
Take care for sufficient fresh air supply during and after use.  
Product must not be sprayed. Allergics or persons tending to respiratory tract diseases must not be involved in operations with this product.

In addition, the current technical information for this product and its application on [www.caparol.com](http://www.caparol.com) must be observed.

Advice on protection against fire and explosion : Vapours may form explosive mixtures with air. Vapours are heavier than air and may spread along floors. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

Hygiene measures : Keep working clothes separately. Remove and wash contaminated clothing before re-use. Avoid contact with the skin and the eyes. Wash hands before eating, drinking, or smoking. Do not eat, drink or smoke when using this product.

### 7.2 Conditions for safe storage, including any incompatibilities

Requirements for storage areas and containers : Store in original container. Store between 5 and 25 °C in a dry, well ventilated place away from sources of heat, ignition and direct sunlight. Containers which are opened must be carefully resealed and kept upright to prevent leakage.

Storage class (TRGS 510) : 3, Flammable liquids

### 7.3 Specific end use(s)

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006



## Capalac PU-Härter

Version	Revision Date:	Print Date	Date of last issue: 14.11.2019
1.1	18.12.2020	22.12.2020	Date of first issue: 14.11.2019

Specific use(s) : This information is not available.

## SECTION 8: Exposure controls/personal protection

### 8.1 Control parameters

#### Occupational Exposure Limits

Components	CAS-No.	Value type (Form of exposure)	Control parameters	Basis
n-butyl acetate	123-86-4	AGW	62 ppm 300 mg/m <sup>3</sup>	DE TRGS 900
			Peak-limit: excursion factor (category): 2;(I)	
			Further information: When there is compliance with the OEL and biological tolerance values, there is no risk of harming the unborn child, Commission for dangerous substances	
xylene	1330-20-7	TWA	50 ppm 221 mg/m <sup>3</sup>	2000/39/EC
			Further information: Indicative, Identifies the possibility of significant uptake through the skin	
		STEL	100 ppm 442 mg/m <sup>3</sup>	2000/39/EC
			Further information: Indicative, Identifies the possibility of significant uptake through the skin	
		AGW	100 ppm 440 mg/m <sup>3</sup>	DE TRGS 900
			Peak-limit: excursion factor (category): 2;(II)	
			Further information: Skin absorption, European Union (The EU has established a limit value: deviations in value and peak limit are possible), Senate commission for the review of compounds at the work place dangerous for the health (MAK-commission).	
ethylbenzene	100-41-4	TWA	100 ppm 442 mg/m <sup>3</sup>	2000/39/EC
			Further information: Indicative, Identifies the possibility of significant uptake through the skin	
		STEL	200 ppm 884 mg/m <sup>3</sup>	2000/39/EC
			Further information: Indicative, Identifies the possibility of significant uptake through the skin	
		AGW	20 ppm 88 mg/m <sup>3</sup>	DE TRGS 900
			Peak-limit: excursion factor (category): 2;(II)	
			Further information: When there is compliance with the OEL and biological tolerance values, there is no risk of harming the unborn child, Skin absorption, European Union (The EU has established a limit value: deviations in value and peak limit are possible), Senate commission for the review of compounds at the work place dangerous for the health (MAK-commission).	
3-	4098-71-9	AGW	0,005 ppm	TRGS 430

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006



## Capalac PU-Härter

Version 1.1      Revision Date: 18.12.2020      Print Date: 22.12.2020      Date of last issue: 14.11.2019  
Date of first issue: 14.11.2019

isocyanatomethyl-3,5,5-trimethylcyclohexyl isocyanate			0,046 mg/m <sup>3</sup>	
	Peak-limit: excursion factor (category): 1;=2=(I)			
	Further information: Senate commission for the review of compounds at the work place dangerous for the health (MAK-commission)., airway sensitizing substance, The exposure limit is established for monomers. For regulatory details on oligomers and polymers see TRGS 430 'Isocyanate'.			
		AGW (Vapour and aerosols)	0,005 ppm 0,046 mg/m <sup>3</sup>	DE TRGS 900
	Peak-limit: excursion factor (category): 1;=2=(I)			
	Further information: Substance sensitizing through the respiratory system, The exposure limit is established for monomers. For regulatory details on oligomers and polymers see TRGS 430 'Isocyanate'., Sum of vapor and aerosols., Senate commission for the review of compounds at the work place dangerous for the health (MAK-commission).			

### Biological occupational exposure limits

Substance name	CAS-No.	Control parameters	Sampling time	Basis
xylene	1330-20-7	xylene: 1,5 mg/l (Blood)	Immediately after exposure or after working hours	TRGS 903
		methylhippuric acid (all isomers): 2 g/l (Urine)	Immediately after exposure or after working hours	TRGS 903
ethylbenzene	100-41-4	mandelic acid + phenylglyoxylic acid: 250 mg/g Creatinine (Urine)	Immediately after exposure or after working hours	TRGS 903

### Derived No Effect Level (DNEL) according to Regulation (EC) No. 1907/2006:

Substance name	End Use	Exposure routes	Potential health effects	Value
n-butyl acetate	Consumers	Inhalation	Long-term systemic effects	12,00 mg/m <sup>3</sup>
	Consumers	Skin contact	Long-term systemic effects	3,40 mg/kg bw/day
	Consumers	Ingestion	Long-term systemic effects	3,40 mg/kg bw/day
	Consumers	Inhalation	Acute systemic effects	859,70 mg/m <sup>3</sup>
	Consumers	Inhalation	Long-term local effects	102,34 mg/m <sup>3</sup>
	Consumers	Inhalation	Long-term systemic effects	102,34 mg/m <sup>3</sup>
	Consumers	Inhalation	Acute local effects	859,70 mg/m <sup>3</sup>
	Workers	Inhalation	Acute systemic effects	960,00 mg/m <sup>3</sup>



# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006



## Capalac PU-Härter

Version 1.1      Revision Date: 18.12.2020      Print Date 22.12.2020      Date of last issue: 14.11.2019  
Date of first issue: 14.11.2019

			fects	
	Workers	Inhalation	Acute systemic effects	960,00 mg/m <sup>3</sup>
	Workers	Inhalation	Acute local effects	960,00 mg/m <sup>3</sup>
	Workers	Inhalation	Acute local effects	960,00 mg/m <sup>3</sup>
	Workers	Inhalation	Long-term systemic effects	48,00 mg/m <sup>3</sup>
	Workers	Inhalation	Long-term systemic effects	480,00 mg/m <sup>3</sup>
	Workers	Inhalation	Long-term systemic effects	480,00 mg/m <sup>3</sup>
	Workers	Inhalation	Long-term local effects	480,00 mg/m <sup>3</sup>
	Workers	Inhalation	Long-term local effects	480,00 mg/m <sup>3</sup>
	Workers	Skin contact	Long-term systemic effects	7,00 mg/kg bw/day
	Consumers	Inhalation	Acute systemic effects	859,70 mg/m <sup>3</sup>
	Consumers	Inhalation	Acute local effects	859,70 mg/m <sup>3</sup>
	Consumers	Inhalation	Long-term systemic effects	102,34 mg/m <sup>3</sup>
	Consumers	Inhalation	Long-term local effects	102,34 mg/m <sup>3</sup>
xylene	Consumers	Inhalation	Acute local effects	174,00 mg/m <sup>3</sup>
	Consumers	Skin contact	Long-term systemic effects	108,00 mg/kg bw/day
	Consumers	Inhalation	Acute systemic effects	174,00 mg/m <sup>3</sup>
	Consumers	Ingestion	Long-term systemic effects	1,60 mg/kg bw/day
	Consumers	Inhalation	Long-term systemic effects	14,80 mg/m <sup>3</sup>
	Workers	Inhalation	Acute systemic effects	289,00 mg/m <sup>3</sup>
	Workers	Inhalation	Acute local effects	289,00 mg/m <sup>3</sup>
	Workers	Inhalation	Long-term systemic effects	77,00 mg/m <sup>3</sup>
	Workers	Skin contact	Long-term systemic effects	180,00 mg/kg bw/day
ethylbenzene	Consumers	Ingestion	Long-term systemic effects	1,60 mg/kg bw/day
	Consumers	Inhalation	Long-term systemic effects	15,00 mg/m <sup>3</sup>
	Workers	Inhalation	Acute systemic effects	884,00 mg/m <sup>3</sup>
	Workers	Inhalation	Acute local effects	293,00 mg/m <sup>3</sup>
	Workers	Inhalation	Acute local effects	884,00 mg/m <sup>3</sup>
	Workers	Inhalation	Long-term systemic	77,00 mg/m <sup>3</sup>

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006



## Capalac PU-Härter

Version 1.1      Revision Date: 18.12.2020      Print Date: 22.12.2020      Date of last issue: 14.11.2019  
Date of first issue: 14.11.2019

			effects	
	Workers	Inhalation	Long-term systemic effects	442,00 mg/m <sup>3</sup>
	Workers	Inhalation	Long-term local effects	442,00 mg/m <sup>3</sup>
	Workers	Skin contact	Long-term systemic effects	180,00 mg/kg bw/day
3-isocyanatomethyl-3,5,5-trimethylcyclohexyl isocyanate	Workers	Inhalation	Acute local effects	0,05 mg/m <sup>3</sup>
	Workers	Inhalation	Long-term local effects	0,05 mg/m <sup>3</sup>

### Predicted No Effect Concentration (PNEC) according to Regulation (EC) No. 1907/2006:

Substance name	Environmental Compartment	Value
n-butyl acetate	Fresh water sediment	0,981 mg/kg dry weight (d.w.)
	Soil	0,0903 mg/kg dry weight (d.w.)
	Marine sediment	0,0981 mg/kg dry weight (d.w.)
	Intermittent use/release	0,36 mg/l
	Sewage treatment plant	35,6 mg/l
xylene	Marine water	0,018 mg/l
	Fresh water	0,18 mg/l
	Fresh water	0,327 mg/l
	Intermittent use/release	0,327 mg/l
ethylbenzene	Soil	2,31 mg/kg dry weight (d.w.)
	Fresh water sediment	12,46 mg/kg dry weight (d.w.)
	Sewage treatment plant	6,58 mg/l
	Marine water	0,327 mg/l
	Marine sediment	12,46 mg/kg dry weight (d.w.)
	Intermittent use/release	0,1 mg/l
3-isocyanatomethyl-3,5,5-	Sewage treatment plant	9,6 mg/l
	Fresh water	0,1 mg/l
	Marine water	0,01 mg/l
	Fresh water sediment	13,7 mg/kg dry weight (d.w.)
	Soil	2,68 mg/kg dry weight (d.w.)
	Marine sediment	1,37 mg/kg dry weight (d.w.)
Secondary Poisoning	Secondary Poisoning	0,02 g/kg food
	Marine water	0,1 mg/l
	Marine water	0,006 mg/l

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006



## Capalac PU-Härter

Version	Revision Date:	Print Date	Date of last issue: 14.11.2019
1.1	18.12.2020	22.12.2020	Date of first issue: 14.11.2019

trimethylcyclohexyl isocyanate		
	Fresh water	0,06 mg/l
	Sewage treatment plant	10,6 mg/l
	Fresh water sediment	218,92 mg/kg dry weight (d.w.)
	Intermittent use/release	0,04 mg/l
	Soil	44,01 mg/kg dry weight (d.w.)
	Marine sediment	21,89 mg/kg dry weight (d.w.)

### 8.2 Exposure controls

#### Personal protective equipment

Eye protection : German trade association rules - BGR 192 Eye protection  
Tightly fitting safety goggles

#### Hand protection

Material : butyl-rubber  
Glove thickness : 0,3 mm  
Protective index : Class 3  
Wearing time : 30 min

Remarks : Gloves should be discarded and replaced if there is any indication of degradation or chemical breakthrough. Before removing gloves clean them with soap and water. Wear suitable gloves tested to EN374.  
German trade association leaflet: Carry gloves (ZH 1/706)

#### Skin and body protection

: Safety shoes  
Long sleeved clothing  
Remove and wash contaminated clothing before re-use.  
Additional body garments should be used based upon the task being performed (e.g., sleevelets, apron, gauntlets, disposable suits) to avoid exposed skin surfaces.  
  
Choose body protection according to the amount and concentration of the dangerous substance at the work place.  
  
Skin should be washed after contact.

#### Respiratory protection

: When exceeding the WEL substance Limit a respiratory filter Type A is necessary. Class 1 or 2 has to be chosen depending on the workplace concentration.  
Do not use for spraying.  
  
German trade association rules - BGR 190 Breathing protection

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006



## Capalac PU-Härter

Version	Revision Date:	Print Date	Date of last issue: 14.11.2019
1.1	18.12.2020	22.12.2020	Date of first issue: 14.11.2019

During spray application: Do not breathe spray dust. Use A2/P2 combination filter for paint spraying.

## SECTION 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

Appearance	:	liquid
Colour	:	No data available
Odour	:	No data available
Odour Threshold	:	Not relevant
pH	:	6,95 Concentration: 10 %
Melting point/freezing point	:	not determined
Boiling point/boiling range	:	not determined
Flash point	:	30 °C
Evaporation rate	:	Not applicable
Upper explosion limit / Upper flammability limit	:	not determined
Lower explosion limit / Lower flammability limit	:	not determined
Vapour pressure	:	not determined
Relative vapour density	:	not determined
Relative density	:	not determined
Density	:	1,0100 g/cm <sup>3</sup>
Solubility(ies) Water solubility	:	insoluble
Partition coefficient: n-octanol/water	:	not determined
Auto-ignition temperature	:	not determined

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006



## Capalac PU-Härter

Version	Revision Date:	Print Date	Date of last issue: 14.11.2019
1.1	18.12.2020	22.12.2020	Date of first issue: 14.11.2019

Decomposition temperature : Not applicable

Viscosity  
Viscosity, dynamic : No data available

Viscosity, kinematic : 12 mm<sup>2</sup>/s (40 °C)  
Method: ISO 3104/3105

Flow time : 17,0 s  
Cross section: 4 mm  
Method: ISO 2431

Explosive properties : Not applicable

Oxidizing properties : Not applicable

### 9.2 Other information

Flammability (liquids) : Sustains combustion

## SECTION 10: Stability and reactivity

### 10.1 Reactivity

No decomposition if stored and applied as directed.

### 10.2 Chemical stability

No decomposition if stored and applied as directed.

### 10.3 Possibility of hazardous reactions

Hazardous reactions : Amines and alcohols cause exothermic reactions.  
Mixture reacts slowly with water resulting in evolution of CO<sub>2</sub>.

### 10.4 Conditions to avoid

Conditions to avoid : Exposure to water vapour.  
Protect from frost, heat and sunlight.

### 10.5 Incompatible materials

Materials to avoid : Amines  
Incompatible with oxidizing agents.  
Incompatible with acids and bases.

### 10.6 Hazardous decomposition products

No decomposition if stored and applied as directed.

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006



## Capalac PU-Härter

Version	Revision Date:	Print Date	Date of last issue: 14.11.2019
1.1	18.12.2020	22.12.2020	Date of first issue: 14.11.2019

### SECTION 11: Toxicological information

#### 11.1 Information on toxicological effects

##### Acute toxicity

###### Product:

Acute oral toxicity : Remarks: Based on available data, the classification criteria are not met.

Acute inhalation toxicity : Remarks: Based on available data, the classification criteria are not met.

Acute toxicity estimate: > 20 mg/l  
Exposure time: 4 h  
Test atmosphere: vapour  
Method: Calculation method

Acute dermal toxicity : Remarks: Based on available data, the classification criteria are not met.

Acute toxicity estimate: > 2.000 mg/kg  
Method: Calculation method

###### Components:

###### **n-butyl acetate:**

Acute oral toxicity : LD50 Oral (Rat): 14.000 mg/kg

###### **xylene:**

Acute oral toxicity : LD50 (Rat): 4.300 mg/kg

Acute inhalation toxicity : LC50 (Rat): 27,5 mg/l  
Exposure time: 4 h  
Test atmosphere: vapour

Acute dermal toxicity : LD50 (Rabbit): > 2.000 mg/kg

###### **ethylbenzene:**

Acute oral toxicity : LD50 Oral (Rat): 3.500 mg/kg

Acute dermal toxicity : LD50 Dermal (Rabbit): 17.800 mg/kg

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006



## Capalac PU-Härter

Version	Revision Date:	Print Date	Date of last issue: 14.11.2019
1.1	18.12.2020	22.12.2020	Date of first issue: 14.11.2019

### Skin corrosion/irritation

**Product:**

Remarks : May cause skin irritation and/or dermatitis.

### Serious eye damage/eye irritation

**Product:**

Remarks : Vapours may cause irritation to the eyes, respiratory system and the skin.

### Respiratory or skin sensitisation

**Product:**

Remarks : Causes sensitisation.

## SECTION 12: Ecological information

### 12.1 Toxicity

**Product:**

Toxicity to fish : Remarks: No data available

Toxicity to daphnia and other aquatic invertebrates : Remarks: No data available

### 12.2 Persistence and degradability

No data available

### 12.3 Bioaccumulative potential

**Components:**

**n-butyl acetate:**

Partition coefficient: n-octanol/water : log Pow: 2,3 (25 °C)  
Method: OECD Test Guideline 117

### 12.4 Mobility in soil

No data available

### 12.5 Results of PBT and vPvB assessment

**Product:**

Assessment : This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher..

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006



## Capalac PU-Härter

Version	Revision Date:	Print Date	Date of last issue: 14.11.2019
1.1	18.12.2020	22.12.2020	Date of first issue: 14.11.2019

### 12.6 Other adverse effects

**Product:**

Additional ecological information : An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.

## SECTION 13: Disposal considerations

### 13.1 Waste treatment methods

Product : Uncured product residues and unpurified packaging should be disposed of as hazardous waste.  
Waste should not be disposed of via wastewater.

Uncured product residues and unpurified packaging should be disposed of as hazardous waste.  
Material residues: Allow the basic substance to harden with hardener and dispose of as paint waste.

Contaminated packaging : Only completely emptied containers should be given for recycling.

Waste Code : used product  
080111\*, waste paint and varnish containing organic solvents or other dangerous substances

## SECTION 14: Transport information

### 14.1 UN number

ADN : UN 1263  
ADR : UN 1263  
RID : UN 1263  
IMDG : UN 1263  
IATA : UN 1263

### 14.2 UN proper shipping name

ADN : PAINT  
ADR : PAINT  
RID : PAINT  
IMDG : PAINT  
IATA : Paint



# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006



## Capalac PU-Härter

Version	Revision Date:	Print Date	Date of last issue: 14.11.2019
1.1	18.12.2020	22.12.2020	Date of first issue: 14.11.2019

### 14.3 Transport hazard class(es)

<b>ADN</b>	:	3
<b>ADR</b>	:	3
<b>RID</b>	:	3
<b>IMDG</b>	:	3
<b>IATA</b>	:	3

### 14.4 Packing group

<b>ADN</b>	
Packing group	: III
Classification Code	: F1
Hazard Identification Number	: 30
Labels	: 3
<b>ADR</b>	
Packing group	: III
Classification Code	: F1
Hazard Identification Number	: 30
Labels	: 3
Tunnel restriction code	: (D/E)
<b>RID</b>	
Packing group	: III
Classification Code	: F1
Hazard Identification Number	: 30
Labels	: 3
<b>IMDG</b>	
Packing group	: III
Labels	: 3
EmS Code	: F-E, <u>S-E</u>
<b>IATA (Cargo)</b>	
Packing instruction (cargo aircraft)	: 366
Packing instruction (LQ)	: Y344
Packing group	: III
Labels	: Flammable Liquids
<b>IATA (Passenger)</b>	
Packing instruction (passenger aircraft)	: 355
Packing instruction (LQ)	: Y344
Packing group	: III
Labels	: Flammable Liquids

### 14.5 Environmental hazards

<b>ADN</b>	
Environmentally hazardous	: no

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006



## Capalac PU-Härter

Version	Revision Date:	Print Date	Date of last issue: 14.11.2019
1.1	18.12.2020	22.12.2020	Date of first issue: 14.11.2019

### ADR

Environmentally hazardous : no

### RID

Environmentally hazardous : no

### IMDG

Marine pollutant : no

### 14.6 Special precautions for user

The transport classification(s) provided herein are for informational purposes only, and solely based upon the properties of the unpackaged material as it is described within this Safety Data Sheet. Transportation classifications may vary by mode of transportation, package sizes, and variations in regional or country regulations.

### 14.7 Transport in bulk according to Annex II of Marpol and the IBC Code

Not applicable for product as supplied.

## SECTION 15: Regulatory information

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

REACH - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, preparations and articles (Annex XVII) : Conditions of restriction for the following entries should be considered: Number on list 3

REACH - Candidate List of Substances of Very High Concern for Authorisation (Article 59) : This product is a mixture and does not contain Substances of Very High Concern (SVHC) equal or above 0.1%. Therefore no advised uses have to be defined and no chemical safety assessment has to be generated.

REACH - List of substances subject to authorisation (Annex XIV) : None

Seveso III: Directive 2012/18/EU of the European Parliament and of the Council on the control of major-accident hazards involving dangerous substances.

P5c FLAMMABLE LIQUIDS

Water contaminating class (Germany) : 2 significantly water endangering  
Classification according to AwSV, Annex 1 (5.2)

Volatile organic compounds : Directive 2004/42/EC  
< 44 %  
< 450 g/l

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006



## Capalac PU-Härter

Version	Revision Date:	Print Date	Date of last issue: 14.11.2019
1.1	18.12.2020	22.12.2020	Date of first issue: 14.11.2019

### Other regulations:

Take note of Law on the protection of mothers at work, in education and in studies (Maternity Protection Act - MuSchG).

Take note of Directive 94/33/EC on the protection of young people at work or stricter national regulations, where applicable.

### 15.2 Chemical safety assessment

A Chemical Safety Assessment is not required for this substance.

## SECTION 16: Other information

### Full text of H-Statements

H225	: Highly flammable liquid and vapour.
H226	: Flammable liquid and vapour.
H304	: May be fatal if swallowed and enters airways.
H312	: Harmful in contact with skin.
H315	: Causes skin irritation.
H317	: May cause an allergic skin reaction.
H319	: Causes serious eye irritation.
H330	: Fatal if inhaled.
H332	: Harmful if inhaled.
H334	: May cause allergy or asthma symptoms or breathing difficulties if inhaled.
H335	: May cause respiratory irritation.
H336	: May cause drowsiness or dizziness.
H373	: May cause damage to organs through prolonged or repeated exposure.
H373	: May cause damage to organs through prolonged or repeated exposure if inhaled.
H411	: Toxic to aquatic life with long lasting effects.
H412	: Harmful to aquatic life with long lasting effects.

### Full text of other abbreviations

Acute Tox.	: Acute toxicity
Aquatic Chronic	: Long-term (chronic) aquatic hazard
Asp. Tox.	: Aspiration hazard
Eye Irrit.	: Eye irritation
Flam. Liq.	: Flammable liquids
Resp. Sens.	: Respiratory sensitisation
Skin Irrit.	: Skin irritation
Skin Sens.	: Skin sensitisation
STOT RE	: Specific target organ toxicity - repeated exposure
STOT SE	: Specific target organ toxicity - single exposure
2000/39/EC	: Europe. Commission Directive 2000/39/EC establishing a first list of indicative occupational exposure limit values
DE TRGS 900	: Germany. TRGS 900 - Occupational exposure limit values.
TRGS 430	: Germany. TRGS 430 - Isocyanates

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006



## Capalac PU-Härter

Version	Revision Date:	Print Date	Date of last issue: 14.11.2019
1.1	18.12.2020	22.12.2020	Date of first issue: 14.11.2019

TRGS 903	:	TRGS 903 - Biological limit values
2000/39/EC / TWA	:	Limit Value - eight hours
2000/39/EC / STEL	:	Short term exposure limit
DE TRGS 900 / AGW	:	Time Weighted Average
TRGS 430 / AGW	:	Occupational Exposure Limit

ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways; ADR - European Agreement concerning the International Carriage of Dangerous Goods by Road; AIIC - Australian Inventory of Industrial Chemicals; ASTM - American Society for the Testing of Materials; bw - Body weight; CLP - Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); ECHA - European Chemicals Agency; EC-Number - European Community number; ECx - Concentration associated with x% response; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECl - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; n.o.s. - Not Otherwise Specified; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RID - Regulations concerning the International Carriage of Dangerous Goods by Rail; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; SVHC - Substance of Very High Concern; TCSI - Taiwan Chemical Substance Inventory; TRGS - Technical Rule for Hazardous Substances; TSCA - Toxic Substances Control Act (United States); UN - United Nations; vPvB - Very Persistent and Very Bioaccumulative

### Further information

#### **Other information:**

No exposure scenario communication is required for this product according to REACH Regulation No. 1907/2006 EC.

Communication of Uses is not required in accordance with REACH Article 31(1)(a) - registered substances / mixtures do not meet the criteria for classification as hazardous in accordance with Regulations 1272/2008 EC or 1999/45/EC.

#### **Sources of key data used to compile the Safety Data Sheet:**

ECHA WebSite

ACGIH (American Conference of Government Industrial Hygienists). 2014 TLVs and BEIs.

Threshold Limit Values (TLVs) for chemical substances and physical agents and Biological Exposure Indices (BEIs) with Seventh Edition documentation. 2014 ACGIH, Cincinnati OH

NIOSH - Registry of toxic effects of chemical substances

ECDIN - Environmental Chemicals Data and Information Network - Joint Research Centre, Commission of the European Communities

SAX'S - Dangerous properties of industrial materials

GESTIS - Database on hazardous substances - Institut für Arbeitsschutz der Deutschen Gesetzlichen Unfallversicherung (IFA, Institute for Occupational Safety and Health of the German Social Accident Insurance)

Toxnet - Toxicology Data Network

#### **Classification of the mixture:**

Flam. Liq. 3	H226
Skin Irrit. 2	H315
Eye Irrit. 2	H319

#### **Classification procedure:**

Based on product data or assessment
Calculation method
Calculation method

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006



## Capalac PU-Härter

Version	Revision Date:	Print Date	Date of last issue: 14.11.2019
1.1	18.12.2020	22.12.2020	Date of first issue: 14.11.2019

Skin Sens. 1	H317	Calculation method
STOT SE 3	H336	Calculation method
STOT SE 3	H335	Calculation method
STOT RE 2	H373	Calculation method
Asp. Tox. 1	H304	Calculation method

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

### REACH Information

According to our legal obligation we implement the Regulation (EC) No 1907/2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH). We will adjust and update our safety data sheets on a regular base in accordance with the information of our upstream-suppliers. As usual we will inform you about the adjustments.

Regarding to the REACH regulation we would like to point out that DAW as a downstream user will not register on behalf of our company. We will rely on information from our suppliers. As soon as new information is available our safety data sheets will be amended accordingly.

DE / EN