

**Trade name:** einZA Härter LawiPen, für 2-K-PU Beschichtung RAL 7035**Product no.:** 0072699**Current version :** 3.0.0, issued: 28.02.2022**Replaced version:** 2.1.0, issued: 01.11.2021**Region:** GB**SECTION 1: Identification of the substance/mixture and of the company/undertaking****1.1 Product identifier****Trade name****einZA Härter LawiPen, für 2-K-PU Beschichtung RAL 7035**Substance name hexamethylene-1,6-diisocyanate oligomerization product (biuret)  
REACH registration no. 01-2119970543-34**Identification numbers**CAS no. 28182-81-2  
EC no. 939-340-8**1.2 Relevant identified uses of the substance or mixture and uses advised against****Relevant identified uses of the substance or mixture**coating material  
Hardener**Uses advised against**

No data available.

**1.3 Details of the supplier of the safety data sheet****Address**einZA Farben GmbH & Co KG  
Junkersstraße 13  
30179 HannoverTelephone no. +49 (0)511 67490-0  
Fax no. +49 (0)511 67490-20  
e-mail info@einZA.com**Advice on Safety Data Sheet**

sdb\_info@umco.de

**1.4 Emergency telephone number**For medical advice (in German and English):  
+49 (0)551 192 40 (Giftinformationszentrum Nord)**SECTION 2: Hazards identification****2.1 Classification of the substance or mixture****Classification in accordance with Regulation (EC) No 1272/2008 (CLP)**Acute Tox. 4; H332  
Skin Sens. 1; H317  
STOT SE 3; H335**Classification information**This product is assessed and classified using the methods and criteria below referred to in Article 9 of Regulation (EC) n° 1272/2008:  
Physical hazards: determined through assessment data based on the methods or standards referred to in part 2 of Annex I to CLP  
Health hazards and environmental hazards: determined through toxicological and ecotoxicological assessment data based on the methods or standards referred to in Part 3 and 4 of Annex I to CLP.**2.2 Label elements****Labelling according to Regulation (EC) No 1272/2008 (CLP Regulation)****Product identifier**

28182-81-2 (hexamethylene-1,6-diisocyanate oligomerization product (biuret))

**Hazard pictograms**

GHS07

**Signal word**

Warning

**Hazard statement(s)**H317 May cause an allergic skin reaction.  
H332 Harmful if inhaled.  
H335 May cause respiratory irritation.**Precautionary statement(s)**P101 If medical advice is needed, have product container or label at hand.  
P102 Keep out of reach of children.

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P271 Use only outdoors or in a well-ventilated area.  
 P280 Wear protective gloves/eye protection.  
 P405 Store locked up.  
 P501 Dispose of contents/container to a facility in accordance with local and national regulations.

**Supplemental label elements**

'As from 24 August 2023 adequate training is required before industrial or professional use'

**2.3 Other hazards**

PBT assessment  
 The components of this product are not considered to be a PBT.  
 vPvB assessment  
 The components of this product are not considered to be a vPvB.

**SECTION 3: Composition/information on ingredients****3.1 Substances****Chemical characterization**

Substance name hexamethylene-1,6-diisocyanate oligomerization product (biuret)

**Identification numbers**

CAS no. 28182-81-2  
 EC no. 939-340-8

**Components to be mentioned according to Regulation (EU) No. 1907/2006, Annex II, section 3.1**

Substance name	Additional information	
CAS / EC / Index / REACH no	Concentration	%
hexamethylene-diisocyanate	component	
822-06-0	< 0.50	wt%
212-485-8		
615-011-00-1		
01-2119457571-37		

**3.2 Mixtures**

Not applicable. The product is not a mixture.

**SECTION 4: First aid measures****4.1 Description of first aid measures****General information**

In all cases of doubt, or when symptoms persist, seek medical attention. Never give anything by mouth to an unconscious person. If unconscious place in recovery position and seek medical advice.

**After inhalation**

Remove to fresh air, keep patient warm and at rest. If breathing is irregular or stopped, administer artificial respiration.

**After skin contact**

Remove contaminated clothing. Wash skin thoroughly with soap and water or use recognised skin cleanser. Do NOT use solvents or thinners.

**After eye contact**

Remove contact lenses, irrigate copiously with clean, fresh water, holding the eyelids apart for at least 10 minutes and seek immediate medical advice.

**After ingestion**

If accidentally swallowed rinse the mouth with plenty of water (only if the person is conscious) and obtain immediate medical attention. Keep at rest. Do NOT induce vomiting.

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

No data available.

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

No data available.

**SECTION 5: Firefighting measures****5.1 Extinguishing media****Suitable extinguishing media**Alcohol resistant foam, CO<sub>2</sub>, powders, water spray**Unsuitable extinguishing media**

water jet.

**5.2 Special hazards arising from the substance or mixture**In the event of fire, the following can be released: Carbon monoxide (CO); Carbon dioxide (CO<sub>2</sub>); Nitrogen oxides (NO<sub>x</sub>); Hydrogen

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cyanide (HCN); Monomeric isocyanates; Amines; alcohols; Exposure to decomposition products may cause a health hazard.

**5.3 Advice for firefighters**

Cool closed containers exposed to fire with water. Do not allow run-off from fire fighting to enter drains or water courses. Appropriate breathing apparatus may be required.

**SECTION 6: Accidental release measures****6.1 Personal precautions, protective equipment and emergency procedures****For non-emergency personnel**

Avoid breathing vapours. Refer to protective measures listed in sections 7 and 8.

**For emergency responders**

No data available. Personal protective equipment (PPE) - see Section 8.

**6.2 Environmental precautions**

Is not allowed to be released into the sewerage or water courses. If the product contaminates lakes, rivers or sewage, inform appropriate authorities in accordance with local regulations.

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

Contain and collect spillage with non-combustible absorbent materials, e.g. sand, earth, vermiculite, diatomaceous earth. Place in a suitable container. The contaminated area should be cleaned up immediately with a suitable decontaminant.

One possible (flammable) decontaminant comprises (by volume): water (45 parts), ethanol or isopropyl alcohol (50 parts), concentrated (d = 0,880) ammonia solution (5 parts).

A non-flammable alternative is sodium carbonate (5 parts), water (95 parts). Add the same decontaminant to the remnants and let stand for several days until no further reaction in non-sealed container. Once this stage is reached, close container and dispose according to local regulations (see section 13).

**6.4 Reference to other sections**

No data available.

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

Persons with a history of asthma, allergies, chronic or recurrent respiratory disease should not be exposed to any process in which this mixture is used. Examination of lung function should be carried out on a regular basis on persons spraying this mixture. Care should be taken when re-opening partly used containers. Precautions should be taken to minimise exposure to atmospheric humidity or water: CO<sub>2</sub> will be formed which in closed containers can result in pressurisation. Avoid the inhalation of dust, particulates and spray mist arising from the application of this mixture. Dry sanding, flame cutting and/or welding of the dry paint film may give rise to dust and/or hazardous fumes. Wet [sanding]/[flating] should be used wherever possible. Avoid inhalation of dust from sanding. Welding, grinding and other hot work on the already-coated substrate may cause free isocyanates to be formed and released. For personal protection see section 8.

**General protective and hygiene measures**

Avoid skin and eye contact. Do not eat or drink during work - no smoking. Wash hands before breaks and after work. Clean skin thoroughly after work; apply skin cream.

**Advice on protection against fire and explosion**

Isolate from sources of heat, sparks and open flame.

**7.2 Conditions for safe storage, including any incompatibilities****Technical measures and storage conditions**

Comply with legal health and safety regulations; Prevent unauthorised access. Keep container tightly closed and dry in a cool, well-ventilated place. Protect from heat and direct sunlight. Keep away from sources of ignition. No smoking.

**Requirements for storage rooms and vessels**

Always keep in containers of same material as the original one. Never use pressure to empty: container is not a pressure vessel.

Containers which are opened must be carefully resealed and kept upright to prevent leakage. Keep container tightly closed. Observe label precautions.

**Incompatible products**

Store away from oxidising agents, from strongly alkaline and strongly acid materials as well as amines, alcohols and water.

**7.3 Specific end use(s)**

No data available.

**SECTION 8: Exposure controls/personal protection****8.1 Control parameters****Occupational exposure limit values**

No	Substance name	CAS no.	EC no.
1	hexamethylene-1,6-diisocyanate oligomerization product (biuret)	28182-81-2	939-340-8

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List of approved workplace exposure limits (WELs) / EH40			
Isocyanates, all (as -NCO) Except methyl isocyanate			
	WEL short-term (15 min reference period)	0.07	mg/m <sup>3</sup>
	WEL long-term (8-hr TWA reference period)	0.02	mg/m <sup>3</sup>
	Comments	Sen	
<b>2</b>	<b>hexamethylene-diisocyanate</b>	<b>822-06-0</b>	<b>212-485-8</b>
List of approved workplace exposure limits (WELs) / EH40			
Isocyanates, all (as -NCO) Except methyl isocyanate			
	WEL short-term (15 min reference period)	0.07	mg/m <sup>3</sup>
	WEL long-term (8-hr TWA reference period)	0.02	mg/m <sup>3</sup>
	Comments	Sen	
<b>3</b>	<b>hexamethylene-diisocyanate</b>	<b>822-06-0</b>	<b>212-485-8</b>
List of approved workplace exposure limits (WELs) / EH40			
Isocyanates, all (as -NCO) Except methyl isocyanate			
	WEL short-term (15 min reference period)	0.07	mg/m <sup>3</sup>
	WEL long-term (8-hr TWA reference period)	0.02	mg/m <sup>3</sup>
	Comments	Sen	

**DNEL, DMEL and PNEC values****DNEL values (worker)**

No	Substance name			CAS / EC no
	Route of exposure	Exposure time	Effect	Value
1	hexamethylene-1,6-diisocyanate oligomerization product (biuret)			28182-81-2 939-340-8
	inhalative	Long term (chronic)		0.5 mg/m <sup>3</sup>
	inhalative	Short term (acut)		1 mg/m <sup>3</sup>
2	hexamethylene-diisocyanate			822-06-0 212-485-8
	inhalative	Short term (acut)	systemic	0.07 mg/m <sup>3</sup>
	inhalative	Long term (chronic)	systemic	0.035 mg/m <sup>3</sup>
	inhalative	Long term (chronic)	local	0.035 mg/m <sup>3</sup>
	inhalative	Short term (acut)	local	0.07 mg/m <sup>3</sup>

**PNEC values**

No	Substance name		CAS / EC no
	ecological compartment	Type	Value
1	hexamethylene-diisocyanate		822-06-0 212-485-8
	water	fresh water	0.0774 mg/L
	water	marine water	0.00774 mg/L
	water	fresh water sediment	0.01334 mg/kg
	with reference to: dry weight		
	water	marine water sediment	0.001334 mg/kg
	with reference to: dry weight		
	soil	-	0.0026 mg/kg
	with reference to: dry weight		
	sewage treatment plant	-	8.42 mg/L

**Other information**

Under cool dry conditions, it is possible for the isocyanate to remain unreacted in the paint film for up to 30 hours after application.

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

Provide good ventilation. Where reasonably practicable this should be achieved by the use of local exhaust ventilation and good general extraction. If exposure cannot be avoided by the provision of local exhaust ventilation, suitable respiratory protective equipment should be used. Air-fed protective respiratory equipment must be worn by spray operator even when good ventilation is provided. In other operations, if local exhaust ventilation and good general extraction are not sufficient to maintain concentrations of particulates and solvent vapour below the OEL, suitable respiratory protection must be worn.

**Personal protective equipment****Respiratory protection**

If workers are exposed to concentrations above the exposure limit they must use appropriate, certified respirators. If dry flatting is unavoidable air fed respiratory protective equipment should be used. When spraying: air fed respirator. For operations other than spraying: In well ventilated areas, air-fed respirators could be replaced by a combination of charcoal filter and particulate filter mask. Filter A2P2 (DIN EN 14387)

**Eye / face protection**

Wear safety goggles to protect against splashes. Safety glasses with side protection shield (EN 166)

**Hand protection**

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Sufficient protection is given wearing suitable protective gloves checked according to i.e. EN 374, in the event of risk of skin contact with the product. Before use, the protective gloves should be tested in any case for its specific work-station suitability (i.e. mechanical resistance, product compatibility and antistatic properties). Adhere to the manufacturer's instructions and information relating to the use, storage, care and replacement of protective gloves. Protective gloves shall be replaced immediately when physically damaged or worn. Design operations thus to avoid permanent use of protective gloves.

Appropriate Material	nitrile rubber		
Material thickness	>=	0.5	mm
Appropriate Material	butyl rubber		
Material thickness	>=	0.5	mm
Appropriate Material	fluorintated rubber		
Material thickness	>=	0.5	mm

**Other**

Personnel should wear anti-static clothing made of natural fibre or of high temperature resistant synthetic fibre.

**Environmental exposure controls**

Do not allow to enter drains or water courses.

## SECTION 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

<b>State of aggregation</b>			
liquid			
<b>Form/Colour</b>			
liquid			
yellowish			
<b>Odour</b>			
almost odourless			
<b>pH value</b>			
No data available			
<b>Boiling point / boiling range</b>			
No data available			
<b>Melting point/freezing point</b>			
No data available			
<b>Decomposition temperature</b>			
No data available			
<b>Flash point</b>			
No data available			
<b>Ignition temperature</b>			
No data available			
<b>Oxidising properties</b>			
Not applicable			
<b>Flammability</b>			
Not applicable			
<b>Lower explosion limit</b>			
No data available			
<b>Upper explosion limit</b>			
No data available			
<b>Vapour pressure</b>			
No data available.			
<b>Relative vapour density</b>			
No data available			
<b>Relative density</b>			
No data available			
<b>Density</b>			
Value		1.13	g/cm <sup>3</sup>
Reference temperature		20	°C
<b>Solubility in water</b>			
Comments	hydrolyses		
<b>Solubility</b>			
No data available			
<b>Partition coefficient n-octanol/water (log value)</b>			

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No data available			
<b>Viscosity</b>			
Value	5400	mPa*s	
Reference temperature	20	°C	
Type	dynamic		
<b>Solvent separation test</b>			
Not applicable			
<b>Particle characteristics</b>			
No data available			

9.2 Other information

<b>Other information</b>
No data available.

**SECTION 10: Stability and reactivity**

10.1 Reactivity

The product reacts slowly with water resulting in evolution of carbon dioxide.

10.2 Chemical stability

Stable under recommended storage and handling conditions (See section 7).

10.3 Possibility of hazardous reactions

Keep away from oxidising agents, strongly alkaline and strongly acid materials, amines, alcohols and water. In closed containers, pressure build up could result in distortion, blowing and in extreme cases bursting of the container.

10.4 Conditions to avoid

Heat, naked flames and other ignition sources.

10.5 Incompatible materials

Uncontrolled exothermic reactions occur with amines and alcohols.

10.6 Hazardous decomposition products

When exposed to high temperatures may produce hazardous decomposition products. Amines; Alcohols; Hydrogen cyanide (HCN); Monomeric isocyanates

**SECTION 11: Toxicological information**

11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008

Acute oral toxicity			
No	Substance name	CAS no.	EC no.
1	hexamethylene-diisocyanate	822-06-0	212-485-8
LD50		746	mg/kg bodyweight
Species	rat		
Method	OECD 401		
Source	ECHA		

Acute dermal toxicity			
No	Substance name	CAS no.	EC no.
1	hexamethylene-diisocyanate	822-06-0	212-485-8
LD50		> 7000	mg/kg bodyweight
Species	rat		
Method	OECD 402		
Source	ECHA		

Acute inhalational toxicity (result of the ATE calculation for the mixture)	
No	Product Name
1	einzA Härter LawiPen, für 2-K-PU Beschichtung RAL 7035
ATE (Mixture)	10.1130
Route of exposure / physical form	Vapour
Method	Calculation method according Regulation (EC) No 1272/2008, (CLP), annex I, part 3, section 3.1.3.6.

Acute inhalational toxicity			
No	Substance name	CAS no.	EC no.
1	hexamethylene-diisocyanate	822-06-0	212-485-8
LC50		0.124	mg/l
Duration of exposure		4	h
State of aggregation	Dust/mist		
Species	rat		

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<b>Skin corrosion/irritation</b>
No data available

<b>Serious eye damage/irritation</b>
No data available

<b>Respiratory or skin sensitisation</b>			
No	Substance name	CAS no.	EC no.
1	hexamethylene-diisocyanate	822-06-0	212-485-8
Route of exposure		respiratory tract	
Species		guinea pig	
Method		OECD 403	
Source		ECHA	
Evaluation		sensitizing	
Route of exposure		Skin	
Species		guinea pig	
Method		OECD 406	
Source		ECHA	
Evaluation		sensitizing	

<b>Germ cell mutagenicity</b>			
No	Substance name	CAS no.	EC no.
1	hexamethylene-diisocyanate	822-06-0	212-485-8
Method		OECD 474	
Source		ECHA	
Evaluation/classification		Based on available data, the classification criteria are not met.	

<b>Reproduction toxicity</b>			
No	Substance name	CAS no.	EC no.
1	hexamethylene-diisocyanate	822-06-0	212-485-8
Method		OECD 422	
Source		ECHA	
Evaluation/classification		Based on available data, the classification criteria are not met.	

<b>Carcinogenicity</b>			
No	Substance name	CAS no.	EC no.
1	hexamethylene-diisocyanate	822-06-0	212-485-8
Method		OECD 453	
Source		ECHA	
Evaluation/classification		Based on available data, the classification criteria are not met.	

<b>STOT - single exposure</b>
No data available

<b>STOT - repeated exposure</b>
No data available

<b>Aspiration hazard</b>
No data available

<b>Delayed and immediate effects as well as chronic effects from short and long-term exposure</b>
Repeated or prolonged contact with the mixture may cause removal of natural fat from the skin resulting in non-allergic contact dermatitis and absorption through the skin. The liquid splashed in the eyes may cause irritation and reversible damage. Based on the properties of the isocyanate components and considering toxicological data on similar mixtures, this mixture may cause acute irritation and/or sensitisation of the respiratory system leading to an asthmatic condition, wheeziness and a tightness of the chest.

11.2 Information on other hazards

**Endocrine disrupting properties**  
No data available.

**Other information**  
No data available.

**SECTION 12: Ecological information**

12.1 Toxicity

<b>Toxicity to fish (acute)</b>
No data available

<b>Toxicity to fish (chronic)</b>
No data available

<b>Toxicity to Daphnia (acute)</b>
No data available

<b>Toxicity to Daphnia (chronic)</b>
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No data available

Toxicity to algae (acute)			
No	Substance name	CAS no.	EC no.
1	hexamethylene-diisocyanate	822-06-0	212-485-8
ErC50	>	77.4	mg/l
Duration of exposure		72	h
Species	Desmodesmus subspicatus		
Method	EU C.3		
Source	ECHA		

Toxicity to algae (chronic)			
No	Substance name	CAS no.	EC no.
1	hexamethylene-diisocyanate	822-06-0	212-485-8
NOEC		11.7	mg/l
Duration of exposure		72	h
Species	Desmodesmus subspicatus		
Method	EU C.3		
Source	ECHA		

Bacteria toxicity			
No data available			

**12.2 Persistence and degradability**

Biodegradability			
No	Substance name	CAS no.	EC no.
1	hexamethylene-diisocyanate	822-06-0	212-485-8
Type	aerobic biodegradation		
Value		42	%
Duration		28	day(s)
Method	OECD 301 F		
Source	ECHA		

**12.3 Bioaccumulative potential**

No data available.

**12.4 Mobility in soil**

No data available.

**12.5 Results of PBT and vPvB assessment**

Results of PBT and vPvB assessment	
PBT assessment	The components of this product are not considered to be a PBT.
vPvB assessment	The components of this product are not considered to be a vPvB.

**12.6 Endocrine disrupting properties**

No data available.

**12.7 Other adverse effects**

No data available.

**12.8 Other information**

Other information
Do not allow to enter drains or water courses.

**SECTION 13: Disposal considerations**

**13.1 Waste treatment methods**

**Product**

Waste code 08 01 11\* waste paint and varnish containing organic solvents or other hazardous substances  
 The listed waste code numbers, according to the European Waste Catalogue, are to be understood as a recommendation. A final decision must be made in agreement with the regional waste disposal company.  
 Disposal of the product should be carried out in accordance with all applicable regulations following consultation with the responsible local authority and the disposal company in an authorised and suitable disposal facility.

**Packaging**

Residues in empty containers should be neutralised with decontaminant (see section 6). Residues must be removed from packaging and when emptied completely disposed of in accordance with the regulations for waste removal. Incompletely emptied packaging must be disposed of in the form of disposal specified by the regional disposer. Empty containers must be scrapped or reconditioned.

**SECTION 14: Transport information**

**14.1 Transport ADR/RID/ADN**

The product is not subject to ADR/RID/ADN regulations.



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**14.2 Transport IMDG**

The product is not subject to IMDG regulations.

**14.3 Transport ICAO-TI / IATA**

The product is not subject to ICAO-TI / IATA regulations.

**14.4 Other information**

No data available.

**14.5 Environmental hazards**

Information on environmental hazards, if relevant, please see 14.1 - 14.3.

**14.6 Special precautions for user**

Transport within the user's premises: Always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.

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

Not relevant

**SECTION 15: Regulatory information**

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

**EU regulations**

**Regulation (EC) No 1907/2006 (REACH) Annex XIV (List of substances subject to authorisation)**

In accordance with the REACH regulation (EC) 1907/2006, the product does not contain any substances that are considered as subject to listing in annex XIV, inventory of substances requiring authorisation.

**REACH candidate list of substances of very high concern (SVHC) for authorisation**

In accordance with article 57 and article 59 of the Reach regulation (EC) 1907/2006, this substance is not considered as subject to listing in annex XIV, inventory of substances requiring authorisation ("Authorization list").

**Regulation (EC) No 1907/2006 (REACH) Annex XVII: RESTRICTIONS ON THE MANUFACTURE, PLACING ON THE MARKET AND USE OF CERTAIN DANGEROUS SUBSTANCES, MIXTURES AND ARTICLES**

The substance is considered being subject to REACH regulation (EC) 1907/2006 annex XVII.

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1	hexamethylene-1,6-diisocyanate oligomerization product (biuret)	28182-81-2	939-340-8	74
2	hexamethylene-diisocyanate	822-06-0	212-485-8	74, 75

**Directive 2012/18/EU on the control of major-accident hazards involving dangerous substances**

This substance is not subject to Part 1 or 2 of Annex I

**National regulations**

**Other national regulations**

Adhere to national regulations for proper handling and use of hazardous materials. Use appropriate personal protective equipment.

**15.2 Chemical safety assessment**

A chemical safety assessment has not been carried out for this mixture.

**SECTION 16: Other information**

**Sources of key data used to compile the data sheet:**

Regulation (EC) No 1907/2006 (REACH), 1272/2008 (CLP) as amended in each case.  
 The data sources used to determine physical, toxic and ecotoxic data, are indicated directly in the corresponding section.  
 Directives 2000/39/EC, 2006/15/EC, 2009/161/EU, (EU) 2017/164.  
 National Threshold Limit Values of the corresponding countries as amended in each case.  
 Transport regulations according to ADR, RID, IMDG, IATA as amended in each case.

**Creation of the safety data sheet**

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This information is based on our present knowledge and experience.  
 The safety data sheet describes products with a view to safety requirements.  
 It does not however, constitute a guarantee for any specific product properties and shall not establish a legally valid contractual relationship.

Alterations/supplements:  
 Alterations to the previous edition are marked in the left-hand margin.

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 Prod-ID 672856

# EU safety data sheet



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