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

1.1 Product identifier

Trade name

einzA Härter Lawiment, 2-K-PU Mattsiegel

UFI:
FYVC-V1Y2-K007-5PYE

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

Relevant identified uses of the substance or mixture
decorative paints/finishes

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 Hannover

Telephone no. +49 (0)511 67490-0
Fax no. +49 (0)511 67490-20
e-mail info@einzA.com

Information provided by / telephone
In emergencies, the country-specific emergency number can be found in the corresponding country-specific safety data sheets.

Advice on Safety Data Sheet
sdb_info@umco.de

1.4 Emergency telephone number

+49 (0)40 0511 - 674 90-0

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
Eye Irrit. 2; H319
Resp. Sens. 1; H334
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, 4 and 5 of Annex I to CLP.

2.2 Label elements

Labelling according to Regulation (EC) No 1272/2008 (CLP Regulation)

Hazard pictograms


GHS07


GHS08

Signal word
Danger

Hazardous component(s) to be indicated on label:
Aliphatic polyisocyanate
tosyl isocyanate

Hazard statement(s)

H317	May cause an allergic skin reaction.
H319	Causes serious eye irritation.
H332	Harmful if inhaled.
H334	May cause allergy or asthma symptoms or breathing difficulties if inhaled.
H335	May cause respiratory irritation.

Hazard statements (EU)

EUH204	Contains isocyanates. May produce an allergic reaction.

Precautionary statement(s)

P101	If medical advice is needed, have product container or label at hand.
P102	Keep out of reach of children.
P271	Use only outdoors or in a well-ventilated area.
P280	Wear protective gloves/eye protection.
P304+P340	IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P342+P311	If experiencing respiratory symptoms: Call a POISON CENTER/doctor.
P405	Store locked up.
P501	Dispose of contents/container to a facility in accordance with local and national regulations.

UFI:
FYVC-V1Y2-K007-5PYE

2.3 Other hazards

The product does not contain any components > 0.1% that meet the criteria for PBT and vPvB according to Regulation (EC) No. 1907/2006, Annex XIII, or that have been included in the list compiled in accordance with Article 59(1). This product does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

SECTION 3: Composition/information on ingredients

3.1 Substances

Not applicable. The product is not a substance.

3.2 Mixtures

Hazardous ingredients

No	Substance name		Additional information	
	CAS / EC / Index / REACH no	Classification (EC) 1272/2008 (CLP)	Concentration	%
1	**Aliphatic polyisocyanate**			
	28182-81-2 931-274-8 - 01-2119485796-17	Acute Tox. 4; H332 Skin Sens. 1; H317 STOT SE 3; H335	>= 70,00 - < 90,00	wt%
2	**Poly(oxy-1,2-ethanediyl), alpha-tridecyl-omega-hydroxy-, phosphate**			
	9046-01-9 - - -	Aquatic Chronic 3; H412 Eye Dam. 1; H318 Skin Irrit. 2; H315	< 2,50	wt%
3	**tosyl isocyanate**			
	4083-64-1 223-810-8 615-012-00-7 01-2119980050-47	EUH014 Eye Irrit. 2; H319 Resp. Sens. 1; H334 Skin Irrit. 2; H315 STOT SE 3; H335	< 2,50	wt%

4	**cyclohexyldimethylamine**			
	98-94-2 202-715-5 - 01-2119533030-60	Acute Tox. 3; H301 Acute Tox. 3; H311 Acute Tox. 3; H331 Aquatic Chronic 3; H412 Flam. Liq. 3; H226 Skin Corr. 1B; H314 Eye Dam. 1; H318	< 0,50	wt%
5	**hexamethylene-diisocyanate**			
	822-06-0 212-485-8 615-011-00-1 01-2119457571-37	Acute Tox. 4; H302 Eye Irrit. 2; H319 Resp. Sens. 1; H334 Skin Irrit. 2; H315 Skin Sens. 1; H317 STOT SE 3; H335 Acute Tox. 1; H330	< 0,10	wt%

Full text of H- and EUH-phrases, if not already mentioned in section 2.2: see section 16.

No	Note	Specific concentration limits	M-factor (acute)	M-factor (chronic)
5	-	Resp. Sens. 1; H334: C >= 0,5% Skin Sens. 1; H317: C >= 0,5%	-	-

Acute toxicity estimate (ATE) values			
No	**oral**	**dermal**	**inhalative**
4	289 mg/kg bodyweight	380 mg/kg bodyweight	

3.3 Other information

According to the information provided in the supply chain, the monomeric diisocyanate content is < 0.1 %.

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, CO2, 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 (CO2); Toxic pyrolysis products; Exposure to decomposition products may cause a health hazard.

5.3 Advice for firefighters
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
If the product contaminates lakes, rivers or sewage, inform appropriate authorities in accordance with local regulations. Do not allow to enter drains/watercourses/soil.

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 and place in container for disposal according to local regulations (see section 13). Clean preferably with a detergent - avoid use of solvents.

6.4 Reference to other sections
No data available.

SECTION 7: Handling and storage

7.1 Precautions for safe handling
Advice on safe handling
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]/[flatting] should be used wherever possible. Avoid inhalation of dust from sanding. 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
No special measures necessary.

7.2 Conditions for safe storage, including any incompatibilities
Technical measures and storage conditions
Comply with legal health and safety regulations; Storage in accordance with the Ordinance on Industrial Safety and Health. Prevent unauthorised access. Keep container tightly closed and dry in a cool, well-ventilated place. Protect from heat and direct sunlight. Keep from freezing.

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.

Stoarge Class according TRGS 510
12 Non-combustible liquids that cannot be assigned to any of the above storage classes.

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	**Aliphatic polyisocyanate**	**28182-81-2**	**931-274-8**
	2024/869/EC		
	Diisocyanates (measured as NCO (10))		
	WEL long-term (8-hr TWA reference period)	0,006 mg/m³ 12 ppm	
	Skin resorption / sensibilisation Comments	Skin (8) Dermal and respiratory sensitisation (9) A limit value of 10 µg NCO/m3 in relation to a reference period of 8 hours and a short-term exposure limit value of 20 µg NCO/m3 shall apply until 31 December 2028.	
	TRGS 900		
	Diisocyanate (gemessen als „NCO“)		
	WEL long-term (8-hr TWA reference period)	0,006 mg/m³	
	Ceiling Limit Skin resorption / sensibilisation	2 Sah	

DNEL, DMEL and PNEC values

DNEL values (worker)

No	Substance name			CAS / EC no	
	Route of exposure	**Exposure time**	**Effect**	**Value**	
1	**Aliphatic polyisocyanate**			**28182-81-2 931-274-8**	
	inhalative	Short term (acut)	local	1	mg/m³
	with reference to: Air				
	inhalative	Long term (chronic)	local	0,5	mg/m³
	with reference to: Air				
2	**tosyl isocyanate**			**4083-64-1 223-810-8**	
	dermal	Long term (chronic)	systemic	0,92	mg/kg bw/day
	inhalative	Long term (chronic)	systemic	3,24	mg/m³
3	**cyclohexyldimethylamine**			**98-94-2 202-715-5**	
	dermal	Long term (chronic)	systemic	0,6	mg/kg/day
	dermal	Long term (chronic)	local		
	Comments: high hazard (no threshold derived)				
	dermal	Short term (acut)	local		
	Comments: high hazard (no threshold derived)				
	inhalative	Long term (chronic)	local	8,3	mg/m³
	inhalative	Short term (acut)	local	8,3	mg/m³
	inhalative	Long term (chronic)	systemic	0,53	

DNEL value (consumer)

No	Substance name			CAS / EC no	
	Route of exposure	**Exposure time**	**Effect**	**Value**	
1	**tosyl isocyanate**			**4083-64-1 223-810-8**	
	oral	Long term (chronic)	systemic	0,46	mg/kg bw/day
	dermal	Long term (chronic)	systemic	0,46	mg/kg bw/day
	inhalative	Long term (chronic)	systemic	0,8	mg/m³

PNEC values

No	Substance name		CAS / EC no	
	ecological compartment	**Type**	**Value**	
1	**Aliphatic polyisocyanate**		**28182-81-2 931-274-8**	
	water	fresh water	0,127	mg/L

	water	marine water	0,0127	mg/L
	water	fresh water sediment	266700	mg/kg
	with reference to: dry weight			
	water	marine water sediment	266700	mg/kg
	with reference to: dry weight			
	soil	-	53182	mg/kg
	with reference to: dry weight			
	sewage treatment plant	-	38,28	mg/L
2	**tosyl isocyanate**		**4083-64-1 223-810-8**	
	water	fresh water	0,03	mg/L
	water	fresh water sediment	0,172	mg/kg dry weight
	water	Aqua intermittent	0,3	mg/L
	water	marine water	0,003	mg/L
	water	marine water sediment	0,017	mg/kg dry weight
	soil	-	0,017	mg/kg dry weight
	sewage treatment plant	-	0,4	mg/L
3	**cyclohexyldimethylamine**		**98-94-2 202-715-5**	
	water	fresh water	3,5	µg/L
	water	marine water	0,35	µg/L
	water	Aqua intermittent	35	µg/L
	water	fresh water sediment	36,92	µg/kg dry weight
	water	marine water sediment	3,69	µg/kg dry weight
	soil	-	5,33	µg/kg dry weight
	sewage treatment plant	-	20,60	mg/L

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 these 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. When operators, whether spraying or not, have to work inside the spray booth, ventilation is unlikely to be sufficient to control particulates and solvent vapour in all cases. In such circumstances they should wear a compressed air-fed respirator during the spraying process and until such time as the particulates and solvent vapour concentration has fallen below the exposure limits. In case of brush application: Filter A2. When applied by spraying: Filter A2P2. (DIN EN 14387)

Eye / face protection

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

Hand protection

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	In case of short-term contact / splash protection: nitrile rubber		
Material thickness	>	0,4	mm
Breakthrough time	>	120	min
Appropriate Material	In case of prolonged exposure: nitrile rubber		

Material thickness	>	0,4	mm
Breakthrough time	>	480	min

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

State of aggregation
liquid

Form
liquid

Colour
according to product name

Odour
characteristic

pH value	
reason for missing pH	substance/mixture is non-soluble (in water)

Boiling point / boiling range				
Value	appr.		100	°C

Melting point/freezing point
No data available

Decomposition temperature
No data available

Flash point				
Value	65	-	68	°C
Method	closed cup			

Ignition temperature
No data available

Oxidising properties
Not applicable

Flammability
Not applicable

Lower explosion limit
No data available

Upper explosion limit
No data available

Vapour pressure			
Value	<	100	hPa
Reference temperature		50	°C

Relative vapour density
No data available

Relative density
No data available

Density				
Value	1,11	-	1,12	g/cm³
Reference temperature			20	°C

Method	DIN 51757

Solubility in water	
Comments	miscible

Solubility
No data available

Partition coefficient n-octanol/water (log value)			
No	**Substance name**	**CAS no.**	**EC no.**
1	**cyclohexyldimethylamine**	**98-94-2**	**202-715-5**

log Pow	2,01	
Reference temperature	25	°C
Method	OECD 107	
Source	ECHA	

Kinematic viscosity			
Value	50 - 60	sec	
Reference temperature	20	°C	
Method	DIN EN 2431 (4 mm)		

Solvent separation test
Not applicable

Particle characteristics
No data available

Microplastics
This product does not contain synthetic polymer microparticles >= 0.01%.

9.2 Other information

Other information
No data available.

SECTION 10: Stability and reactivity

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

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 in order to avoid exothermic reactions.

10.4 Conditions to avoid
Heat, naked flames and other ignition sources.

10.5 Incompatible materials
Keep away from oxidizing agents, strongly alkaline and strongly acid materials in order to avoid exothermic reactions.

10.6 Hazardous decomposition products
None if stored, handled and transported properly. In case of fire: see section 5.

SECTION 11: Toxicological information

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

Acute oral toxicity (result of the ATE calculation for the mixture)
Product Name
einzA Härter Lawiment, 2-K-PU Mattsiegel

Comments	The result of the applied calculation method according to the European Regulation (EC) 1272/2008 (CLP), Paragraph 3.1.3.6, Part 3 of Annex I is outside the values that imply a classification / labelling of this mixture according to table 3.1.1 defining the respective categories (ATE oral > 2000 mg/kg).

Acute oral toxicity					
No	**Substance name**	**CAS no.**		**EC no.**	
1	**Aliphatic polyisocyanate**	**28182-81-2**		**931-274-8**	
LD50		>	2500		mg/kg bodyweight
Species		rat			
Method		OECD 423			
Source		ECHA			
2	**cyclohexyldimethylamine**	**98-94-2**		**202-715-5**	
LD50			289		mg/kg bodyweight
Species		rat			
Source		ECHA			

Acute dermal toxicity (result of the ATE calculation for the mixture)	
Product Name	
einzA Härter Lawiment, 2-K-PU Mattsiegel	
Comments	The result of the applied calculation method according to the European Regulation (EC) 1272/2008 (CLP), Paragraph 3.1.3.6, Part 3 of Annex I is outside the values that imply a classification / labelling of this mixture according to table 3.1.1 defining the respective categories (ATE dermal > 2000 mg/kg).

Acute dermal toxicity					
No	**Substance name**	**CAS no.**		**EC no.**	
1	**Aliphatic polyisocyanate**	**28182-81-2**		**931-274-8**	
LD50		>	2000		mg/kg bodyweight
Species		rat			
Method		OECD 402			
Source		ECHA			
2	**cyclohexyldimethylamine**	**98-94-2**		**202-715-5**	
LD50			380		mg/kg bodyweight
Species		rat			
Method		OECD 402			
Source		ECHA			

Acute inhalational toxicity (result of the ATE calculation for the mixture)	
Product Name	
einzA Härter Lawiment, 2-K-PU Mattsiegel	
ATE (Mixture)	14,1002 mg/l
Route of exposure / physical from	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	**cyclohexyldimethylamine**	**98-94-2**			**202-715-5**	
LC50		1,7	-	5,5		mg/l
Duration of exposure				6		h
State of aggregation		Vapour				
Species		rat				
Method		OECD 403				
Source		ECHA				

Skin corrosion/irritation			
No	**Substance name**	**CAS no.**	**EC no.**
1	**Aliphatic polyisocyanate**	**28182-81-2**	**931-274-8**
Species		rabbit	
Method		OECD 404	

Source	ECHA
Evaluation	low-irritant
Evaluation/classification	Based on available data, the classification criteria are not met.

Serious eye damage/irritation			
No	**Substance name**	**CAS no.**	**EC no.**
1	**Aliphatic polyisocyanate**	**28182-81-2**	**931-274-8**
Species	rabbit		
Method	OECD 405		
Source	ECHA		
Evaluation	low-irritant		
Evaluation/classification	Based on available data, the classification criteria are not met.		

Respiratory or skin sensitisation			
No	**Substance name**	**CAS no.**	**EC no.**
1	**Aliphatic polyisocyanate**	**28182-81-2**	**931-274-8**
Route of exposure	Skin		
Species	guinea pig		
Method	OECD 406		
Source	ECHA		
Evaluation	sensitizing		
2	**cyclohexyldimethylamine**	**98-94-2**	**202-715-5**
Route of exposure	Skin		
Species	mouse		
Method	OECD 429		
Source	ECHA		
Evaluation	non-sensitizing		

Germ cell mutagenicity			
No	**Substance name**	**CAS no.**	**EC no.**
1	**cyclohexyldimethylamine**	**98-94-2**	**202-715-5**
Type of examination	in vitro gene mutation study in bacteria		
Species	Salmonella typhimurium TA98, TA100, TA1535, TA1537		
Method	OECD 471		
Source	ECHA		
Evaluation/classification	Based on available data, the classification criteria are not met.		

Reproduction toxicity			
No	**Substance name**	**CAS no.**	**EC no.**
1	**cyclohexyldimethylamine**	**98-94-2**	**202-715-5**
Route of exposure	oral		
NOAEL	>	1500	ppm
Duration of exposure		54	day(s)
Type of examination	Combined Repeated Dose Toxicity Study with the Reproduction/Developmental Toxicity Screening Test		
Species	rats (male/female)		
Method	OECD 422		
Source	ECHA		

Carcinogenicity
No data available

STOT - single exposure
No data available

STOT - repeated exposure			
No	**Substance name**	**CAS no.**	**EC no.**
1	**cyclohexyldimethylamine**	**98-94-2**	**202-715-5**
Route of exposure	oral		
NOAEL		100	mg/kg bw/d
Duration of exposure		90	day(s)
Species	rats (male/female)		
Method	OECD 408		
Source	ECHA		

Route of exposure	inhalational		
NOEL		104	mg/m³
Species	rats (male/female)		
Source	ECHA		

Aspiration hazard
No data available

Delayed and immediate effects as well as chronic effects from short and long-term exposure
Exposure to component solvents vapours concentration in excess of the stated occupational exposure limit may result in adverse health effects such as mucous membrane and respiratory system irritation and adverse effects on kidney, liver and central nervous system. Symptoms and signs include headache, dizziness, fatigue, muscular weakness, drowsiness and in extreme cases, loss of consciousness. Solvents may cause some of the above effects by absorption through the skin. 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. Ingestion may cause nausea, diarrhoea and vomiting. This takes into account, where known, delayed and immediate effects and also chronic effects of components from short-term and long-term exposure by oral, inhalation and dermal routes of exposure and eye contact.

11.2 Information on other hazards

Endocrine disrupting properties
No data available

Other information
No data available.

SECTION 12: Ecological information

12.1 Toxicity

Toxicity to fish (acute)				
No	**Substance name**	**CAS no.**		**EC no.**
1	**cyclohexyldimethylamine**	**98-94-2**		**202-715-5**
LC50		31,58		mg/l
Duration of exposure		96		h
Species	Leuciscus idus			
Method	DIN 38 412, Part 15			
Source	ECHA			

Toxicity to fish (chronic)
No data available

Toxicity to Daphnia (acute)				
No	**Substance name**	**CAS no.**		**EC no.**
1	**Aliphatic polyisocyanate**	**28182-81-2**		**931-274-8**
EC50		127		mg/l
Duration of exposure		48		h
Species	Daphnia magna			
Source	ECHA			
2	**cyclohexyldimethylamine**	**98-94-2**		**202-715-5**
EC50		75		mg/l
Duration of exposure		48		h
Species	Daphnia magna			
Method	OECD 202			
Source	ECHA			

Toxicity to Daphnia (chronic)
No data available

Toxicity to algae (acute)				
No	**Substance name**	**CAS no.**		**EC no.**
1	**Aliphatic polyisocyanate**	**28182-81-2**		**931-274-8**
EC50	>	1000		mg/l
Duration of exposure		72		h

Species	Scenedesmus subspicatus
Method	OECD 201
Source	ECHA

2	cyclohexyldimethylamine	98-94-2		202-715-5
EC50		3,5		mg/l
Duration of exposure		72		h
Species	Pseudokirchneriella subcapitata			
Method	OECD 201			
Source	ECHA			

Toxicity to algae (chronic)
No data available

Bacteria toxicity				
No	**Substance name**	**CAS no.**		**EC no.**
1	**Aliphatic polyisocyanate**	**28182-81-2**		**931-274-8**
EC50		3828		mg/l
Duration of exposure		3		h
Species	activated sludge			
Method	OECD 209			
Source	ECHA			
2	**cyclohexyldimethylamine**	**98-94-2**		**202-715-5**
EC50		206		mg/l
Duration of exposure		17		h
Species	Pseudomonas putida			
Method	DIN 38412 T.8			
Source	ECHA			

12.2 Persistence and degradability

Biodegradability				
No	**Substance name**	**CAS no.**		**EC no.**
1	**Aliphatic polyisocyanate**	**28182-81-2**		**931-274-8**
Type	aerobic biodegradation			
Value		1		%
Duration		28		day(s)
Method	OECD 301 A			
Source	ECHA			
Evaluation	not readily biodegradable			
2	**cyclohexyldimethylamine**	**98-94-2**		**202-715-5**
Type	aerobic biodegradation			
Value	90	-	100	%
Duration			18	day(s)
Method	OECD 301 A			
Source	ECHA			
Evaluation	readily biodegradable			

12.3 Bioaccumulative potential

Bioconcentration factor (BCF)			
No	**Substance name**	**CAS no.**	**EC no.**
1	**Aliphatic polyisocyanate**	**28182-81-2**	**931-274-8**
BCF		141	
Method	QSAR		
Source	ECHA		

Partition coefficient n-octanol/water (log value)				
No	**Substance name**	**CAS no.**		**EC no.**
1	**cyclohexyldimethylamine**	**98-94-2**		**202-715-5**
log Pow		2,01		
Reference temperature		25		°C
Method	OECD 107			
Source	ECHA			

12.4 Mobility in soil
No data available.

12.5 Results of PBT and vPvB assessment
No data available.

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.
Allow paint/varnish to dry out completely in a well-ventilated area and dispose of in residual waste once completely soldified. Dispose of liquid or non-drying residues separately.
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 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 UN number or ID number
Not classified as dangerous in the meaning of transport regulations.

14.2 UN proper shipping name
Not classified as dangerous in the meaning of transport regulations.

14.3 Transport hazard class(es)
Not classified as dangerous in the meaning of transport regulations.

14.4 Packing group
Not classified as dangerous in the meaning of transport regulations.

14.5 Environmental hazards
Not classified as dangerous in the meaning of transport regulations.

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)
According to the data available and/or specifications supplied by upstream suppliers, this product does not contain any substances considered as substances requiring authorisation as listed on Annex XIV of the REACH regulation (EC) 1907/2006.

REACH candidate list of substances of very high concern (SVHC) for authorisation
According to available data and the information provided by preliminary suppliers, the product does not contain substances that are considered substances meeting the criteria for inclusion in annex XIV (List of Substances Subject to Authorisation) as laid down in Article 57 and article 59 of REACH (EC) 1907/2006.

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 product is considered being subject to REACH regulation (EC) 1907/2006 annex XVII.	No 3
The product contains following substance(s) that are considered being subject to REACH regulation (EC) 1907/2006 annex XVII.	

No	Substance name	CAS no.	EC no.	No
1	**hexamethylene-diisocyanate**	**822-06-0**	**212-485-8**	**75**
2	**tosyl isocyanate**	**4083-64-1**	**223-810-8**	**75**

Directive 2012/18/EU on the control of major-accident hazards involving dangerous substances
This product is not subject to Part 1 or 2 of Annex I.

Directive 2010/75/EU on industrial emissions (integrated pollution prevention and control)	
VOC content	76,80 %

Directive 2004/42/CE on the limitation of emissions of volatile organic compounds due to the use of organic solvents in certain paints and varnishes and vehicle refinishing products
relevant VOC limit value as referred to in Annex II of Directive 2004/42/CE , Cat. : j, type: wb = 140 g/l Max. VOC content (limit value) of the product in its ready for use condition = < 140 g/l

National regulations

Water Hazard Class (Germany)

Class	1
Source	Classification according to AwSV (Regulation on facilities for handling substances that are hazardous to water).

Other regulations

GISCODE PU35 PU systems, contains solvents (>10% VOC)

Other national regulations

Adhere to national regulations for proper handling and use of hazardous materials. Use appropriate personal protective equipment. For example, TRGS (Technical Rules for Hazardous Substances) and the DGUV (German Social Accident Insurance) rules.

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.

Full text of the H- and EUH- phrases drawn up in sections 2 and 3 (provided not already drawn up in these sections)

EUH014	Reacts violently with water.
H226	Flammable liquid and vapour.
H301	Toxic if swallowed.
H302	Harmful if swallowed.
H311	Toxic in contact with skin.

H314	Causes severe skin burns and eye damage.
H315	Causes skin irritation.
H318	Causes serious eye damage.
H330	Fatal if inhaled.
H331	Toxic if inhaled.
H412	Harmful to aquatic life with long lasting effects.

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, 4 and 5 of Annex I to CLP.

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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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