

Safety Data Sheet according to Regulation (EU) 2020/878 Date of issue: 12.07.2024

Revision date: -

Version/Replaced version: 1.0/-

SECTION 1: Identifica	tion of the substance/mixture and o	of the company/undertaki	ng
1.1. Product identifier			
Product form	: Mixture		
Product name	: Part A LiqRep Plastic - I	lsocyanate	
Product code	: B53.900		
UFI	: NCG2-C0K5-U00K-2XT	Ή	
1.2. Relevant identified	d uses of the substance or mixture and uses	s advised against	
1.2.1. Relevant identified	d uses		
Main use category	: Industrial use, Professio	onal use	
Use of the substance/mixture	: Two-component glue: Is	socyanate	
1.2.2. Uses advised aga			
Restrictions on use	: Consumer use, In house	ehold use	
1.3. Details of the sup	plier of the safety data sheet		
Manufacturer ElringKlinger AG Max-Eyth-Straße 2 72581 Dettingen/Erms - Germ T +49 (0)7123 724 799 det.iam.sdb@elringklinger.co Safety Data Sheet: DLAC Die 1.4. Emergency teleph	m enstleistungsagentur Chemie GmbH, E-mail: sd	ls@dlac-gmbh.de	
		Address	Emergeney number
Country	Organisation/Company Giftinformationszentrum (GIZ-Nord)	Address Robert-Koch Straße 40	Emergency number +49 551 19240
Germany	Universitätsmedizin Göttingen - Georg-August-Univ		+49 551 19240
Classification according to Acute toxicity (inhal.), Categor Skin sensitisation, Category 1 Specific target organ toxicity Full text of H-phrases: see se Adverse physicochemical, May cause an allergic skin re	- Single exposure, Category 3, Respiratory trac		
2.2. Label elements			
Labelling according to Reg Hazard pictograms (CLP)	ulation (EC) No 1272/2008 [CLP]		
Signal word (CLP)	: Warning		
Hazardous ingredients	: Hexamethylene-di-isocy	vanate, homopolymer	
Hazard statements (CLP)	: H317 - May cause an al H332 - Harmful if inhale H335 - May cause respi	d.	
 Precautionary statements (CLP) P261 - Avoid breathing mist/vapours/spray. P280 - Wear protective gloves/protective clothing/eye protection. P312 - Call a POISON CENTRE or doctor if you feel unwell. P362+P364 - Take off contaminated clothing and wash it before reuse. P403+P233 - Store in a well-ventilated place. Keep container tightly closed. P501 - Dispose of contents/container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation. 		ell. before reuse. iner tightly closed. ecial waste collection point, in	

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EUH-statements

: EUH204 - Contains isocyanates. May produce an allergic reaction.

2.3. Other hazards

People who have chronic respiratory disorders should not work with isocyanate-based products.

The mixture does not contain substance(s) included in the list established in accordance with Article 59(1) of REACH for having endocrine disrupting properties, or is not identified as having endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605.

SECTION 3: Composition/information on ingredients

3.1. Substances

Not applicable

27	Mixtures
J.Z.	WIXLUIES

Name	Product identifier	%	Classification according to Regulation (EC) No 1272/2008 [CLP]
Hexamethylene-di-isocyanate, homopolymer	(CAS No) 28182-81-2 (EC No) 500-060-2 (REACH No) 01-2119485796-17-xxxx	< 90	Acute Tox. 4 (Inhalation), H332 Skin Skin. 1, H317 STOT SE 3, H335
Other relevant ingredients:			
Name	Product identifier	Classification 1272/2008 [CL	according to Regulation (EC) No .P]
Talc (substance with national workplace exposure limit(s))	(CAS No) 14807-96-6 (EC No) 238-877-9	Not classified	

Full text of H-phrases: see section 16

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SECTION 4: First aid measures	
4.1. Description of first aid measures	
First-aid measures general	: Get medical advice/attention if you feel unwell. If possible show him this sheet. Failing this, show him the packaging or label. Never give anything by mouth to an unconscious person. Place the affected person in the recovery position.
First-aid measures after inhalation	 Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTRE or doctor if you feel unwell.
First-aid measures after skin contact	: Remove/Take off immediately all contaminated clothing. Wash with plenty of soap and water. If skin irritation or rash occurs: Get medical advice/attention.
First-aid measures after eye contact	: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
First-aid measures after ingestion	: Rinse mouth. Drink water as a precaution. Do NOT induce vomiting.
4.2. Most important symptoms and effect	ts, both acute and delayed
Symptoms/effects after inhalation	: Harmful if inhaled. May cause respiratory irritation.
Symptoms/effects after skin contact	: May cause an allergic skin reaction.
4.3. Indication of any immediate medica	l attention and special treatment needed
Treat symptomatically. Effects of contact or inha	ation might be delayed. Prolonged medical observation may be indicated.
SECTION 5: Firefighting measures	
5.1. Extinguishing media	
Suitable extinguishing media	: Use extinguishing agents that suit the environment. Carbon dioxide. Extinguishing powder. Water spray. For a significant fire: Alcohol resistant foam.
Unsuitable extinguishing media	: Do not use a heavy water stream.
5.2. Special hazards arising from the su	bstance or mixture
Hazardous decomposition products in case of fire	: Toxic fumes may be released. Carbon dioxide. Carbon monoxide. Isocyanates. Nitrogen oxides. Hydrogen cyanide. Fire will produce dense black smoke.
5.3. Advice for firefighters	
Firefighting instructions	: Use water spray or fog for cooling exposed containers. Prevent fire-fighting water from entering environment.
Protection during firefighting	: Use a self-contained breathing apparatus and also a protective suit.
SECTION 6: Accidental release meas	sures
6.1. Personal precautions, protective eq	uipment and emergency procedures
General measures	: Avoid contact with skin and eyes. Do not breathe vapour/aerosol. Provide adequate ventilation to minimize vapour concentrations. If spilled, may cause the floor to be slippery.
6.1.1. For non-emergency personnel	
Emergency procedures	: Evacuate unnecessary personnel.

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6.1.2. For emergency resp	onders		
Protective equipment			s required. In case of inadequate ventilation wear rmation refer to section 8: "Exposure controls/personal
6.2. Environmental preca	utions		
		sewers and public waters. Notify author	rities if product enters sewers or public waters.
	-		······································
6.3. Methods and materia Methods for cleaning up		: Soak up spills with inert solids, such a wet with water. Sweep or shovel into	as clay or diatomaceous earth as soon as possible. Keep suitable containers. Do not keep the container sealed – er 7 – 14 days: Dispose of in accordance with relevant
6.4. Reference to other s	ections		
Exposure controls and personal	protection, see se	ction 8. Concerning disposal elimination	after cleaning, see section 13.
SECTION 7: Handling ar	nd storage		
7.1. Precautions for safe			
Precautions for safe handling		Ensure good ventilation of the work st	ation. Avoid breathing vapours, spray. Avoid contact with
i reconciono for sulo hunaling		skin and eyes. Wear personal protect	
Hygiene measures		other exposed areas with mild soap a leaving work. When using do not eat,	strial hygiene and safety procedures. Wash hands and nd water before eating, drinking or smoking and when drink or smoke. Contaminated work clothing should not h contaminated clothing before reuse.
7.2. Conditions for safe s	torage, including	any incompatibilities	
Storage conditions		: Store in original container. Keep conta place. Protect from heat and direct su	ainer tightly closed. Store in a dry, cool and well-ventilated nlight.
Prohibitions on mixed storage		: Keep away from food, drink and anim Amines. Alcohols.	al feedingstuffs. Keep away from: Water. Acids. Bases.
7.3. Specific end use(s)			
Two-component glue: Isocyanat	e.		
SECTION 8: Exposure c		nal protection	
	ontrois/perso		
8.1. Control parameters			
Hexamethylene-di-isocyanat		(28182-81-2)	
Ireland	Local name		Isocyanates, All, (as -NCO) except Methyl isocyanate and Toluene 2,4 or 2,6 diisocyanate
Ireland	OEL (8 hours re		0.02 mg/m ³
Ireland	OEL (15 min ref	(mg/m°)	0.07 mg/m ³
Ireland	Notes (IE) Local name		Sens.
Ireland Ireland	BMGV		Isocyanates 1 µmol urinary diamine/mol creatinine, Sampling time:
	DIVIOV		Post task
Talc (14807-96-6)			
Ireland	Local name		Talc
Ireland	OEL (8 hours re) (mg/m³)	0.8 mg/m³ (respirable dust) 10 mg/m³ (total inhalable dust)
Hexamethylene-di-isocyanat	e, homopolymer	(28182-81-2)	
DNEL/DMEL (Workers)		,	
Acute - local effects, inhalation		1 mg/m³	
Long-term - local effects, inhal PNEC (STP)	ation	0.5 mg/m ³	
PNEC sewage treatment plant		-	
PNEC sewage treatment plant		88 mg/l	
8.2. Exposure controls		88 mg/l	
8.2. Exposure controls Appropriate engineering controls		88 mg/l : Provide local exhaust or general room	n ventilation to minimize vapour concentrations.
8.2. Exposure controls		88 mg/l : Provide local exhaust or general room : Wear suitable gloves (EN 374). Butyl	n ventilation to minimize vapour concentrations. rubber. > 0.5 mm. Fluoroelastomer (FKM). > 0.4 mm. The und out by the manufacturer of the protective gloves and
8.2. Exposure controls Appropriate engineering controls		 88 mg/l Provide local exhaust or general room Wear suitable gloves (EN 374). Butyl exact break through time has to be for 	rubber. > 0.5 mm. Fluoroelastomer (FKM). > 0.4 mm. The und out by the manufacturer of the protective gloves and
8.2. Exposure controls Appropriate engineering controls Hand protection		 88 mg/l Provide local exhaust or general room Wear suitable gloves (EN 374). Butyl exact break through time has to be for has to be observed. 	rubber. > 0.5 mm. Fluoroelastomer (FKM). > 0.4 mm. The und out by the manufacturer of the protective gloves and
8.2. Exposure controls Appropriate engineering controls Hand protection Eye protection	3	 88 mg/l Provide local exhaust or general room Wear suitable gloves (EN 374). Butyl exact break through time has to be fo has to be observed. Chemical goggles or safety glasses (I Wear suitable protective clothing. 	rubber. > 0.5 mm. Fluoroelastomer (FKM). > 0.4 mm. The und out by the manufacturer of the protective gloves and

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SECTION 9: Physical and chemical p	roperties	
9.1. Information on basic physical and ch	emical properties	
Physical state	: Liquid	
Colour	: Colourless	
Odour	: Characteristic, slight	
Melting point/freezing point	: No data available	
Boiling point or initial boiling point and boiling range	: No data available	
Flammability	: No data available	
Lower and upper explosion limit	: No data available	
Flash point	: 228 °C (hexamethylene-di-isocyanate)	
Auto-ignition temperature	: No data available	
Decomposition temperature	: 250 °C (hexamethylene-di-isocyanate)	
рН	: Not applicable	
Kinematic viscosity	: No data available	
Solubility	: Water: Not miscible.	
Partition coefficient n-octanol/water (log value)	: Not applicable	
Vapour pressure	: No data available	
Density and/or relative density	: No data available	
Relative vapour density	: No data available	
Particle characteristics	: Not applicable	
9.2. Other information		
9.2.1. Information with regard to physical h	azard classes	
Explosive properties	: None	
Oxidising properties	: None	
9.2.2. Other safety characteristics		
No additional information available		
SECTION 10: Stability and reactivity		
10.1. Reactivity		
Polymerizes on exposure to water (moisture): Pol	yurea.	
10.2. Chemical stability		
Stable under use and storage conditions as recon	imended in section 7.	
10.3. Possibility of hazardous reactions		
Reacts violently with: Amines, alcohols. Contact v	<i>i</i> th water liberates carbon dioxide (CO2).	
10.4. Conditions to avoid		
Protect from heat and direct sunlight.		
10.5. Incompatible materials		
Water. Acids. Bases. Amines. Alcohols.		
10.6. Hazardous decomposition products		
	ardous decomposition products should not be produced. In case of fire: Carbon dioxide. Carbon	
monoxide. Toxic gases and vapours. Isocyanates		
SECTION 11: Toxicological information	bn	
11.1. Information on hazard classes as def	ined in Regulation (EC) No 1272/2008	
Acute toxicity	: Harmful if inhaled.	
Hexamethylene-di-isocyanate, homopolymer	(28182-81-2)	
LD50 oral rat	> 2500 mg/kg	
LD50 dermal rat	> 2000 mg/kg	
Skin corrosion/irritation	: Not classified	
	Based on available data, the classification criteria are not met	
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Serious eye damage/irritation

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: Not classified

: Not classified

: May cause an allergic skin reaction.

Based on available data, the classification criteria are not met

Based on available data, the classification criteria are not met

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Cording to Regulation (EU) 2020/878	: Not classified
Carcinogenicity	Based on available data, the classification criteria are not met
Reproductive toxicity	: Not classified
	Based on available data, the classification criteria are not met
Specific target organ toxicity (single exposure)	: May cause respiratory irritation.
Specific target organ toxicity (repeated	: Not classified
exposure)	Based on available data, the classification criteria are not met
Aspiration hazard	: Not classified
	Based on available data, the classification criteria are not met
11.2. Information on other hazards	
11.2.1. Endocrine disrupting properties	The substance (with we have no endeaving discussion and set of
Endocrine disruption for human health	: The substance/mixture has no endocrine disrupting properties.
11.2.2. Other information	
Potential adverse human health effects and symptoms	: Contains isocyanates. May produce an allergic reaction. Persons already sensitised to diisocyanates may develop allergic reactions when using this product. Effects of contact or inhalation might be delayed. People who have chronic respiratory disorders should not work with isocyanate-based products.
SECTION 12: Ecological information	
12.1. Toxicity	
Acute aquatic toxicity	: Not classified
Chronic aquatic toxicity	: Not classified
Hexamethylene-di-isocyanate, homopolyme	er (28182-81-2)
LL0 fish	≥ 100 mg/l 96 h, Danio rerio
EL50 crustacean	127 mg/l 48 h, Daphnia magna
EC50 algae	> 1000 mg/l 72 h, Scenedesmus subspicatus
12.2. Persistence and degradability	
Hexamethylene-di-isocyanate, homopolyme	er (28182-81-2)
Persistence and degradability	Not readily biodegradable.
Biodegradation	1 %, 28 d
12.3. Bioaccumulative potential	

No additional information available

12.4.	Mobility in soil

No additional information available

12.5. Results of PBT and vPvB assessment Not fulfilling Persistent, Bioaccumulative and Toxic (PBT), very Persistent and very Bioaccumulative (vPvB) criteria.

12.6. **Endocrine disrupting properties**

Endocrine disruption for the environment : The substance/mixture has no endocrine disrupting properties.

Other adverse effects 12.7.

No additional information available

SECTION 13: Disposal consideration	ns
13.1. Waste treatment methods	
Regional legislation (waste)	: Dispose in a safe manner in accordance with local/national regulations.
Waste treatment methods	: Dispose of this material and its container at hazardous or special waste collection point. Do not empty into drains.
Waste disposal recommendations	: Empty the packaging completely prior to disposal. When totally empty, containers are recyclable like any other packing.
European List of Waste (LoW) code	: 08 05 01* - waste isocyanates
Waste code	The valid EWC waste code numbers are source related. The manufacturer is therefore unable to specify EWC waste codes for the articles or products used in the various sectors. The EWC codes listed are intended as a recommendation for users.

SECTION 14: Transport information	
In accordance with ADR / IMDG / IATA	
14.1. UN number or ID number	
UN-No. (ADR)	: Not applicable
UN-No. (IMDG)	: Not applicable

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UN-No. (IATA)	: Not applicable
14.2. UN proper shipping name	
Proper Shipping Name (ADR)	: Not applicable
Proper Shipping Name (IMDG)	: Not applicable
Proper Shipping Name (IATA)	: Not applicable
14.3. Transport hazard class(es)	
ADR	
Transport hazard class(es) (ADR)	: Not applicable
IMDG	
Transport hazard class(es) (IMDG)	: Not applicable
ΙΑΤΑ	
Transport hazard class(es) (IATA)	: Not applicable
14.4. Packing group	
Packing group (ADR)	: Not applicable
Packing group (IMDG)	: Not applicable
Packing group (IATA)	: Not applicable
14.5. Environmental hazards	
Dangerous for the environment	: No
Marine pollutant	: No
Other information	: No supplementary information available.
14.6 Special precautions for user	

14.6. Special precautions for user

Overland transport

Not applicable

Transport by sea

Not applicable

Air transport

Not applicable

14.7. Maritime transport in bulk according to IMO instruments

Not applicable

SECTION 15: Regulatory information

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

15.1.1. EU-Regulations

REACH Annex XIV (Authorisation List)

Contains no substance(s) listed on REACH Annex XIV (Authorisation List).

REACH Candidate List (SVHC)

Contains no substance(s) listed on the REACH Candidate List.

PIC Regulation (Prior Informed Consent)

Contains no substance(s) listed on the PIC list (Regulation EU 649/2012 concerning the export and import of hazardous chemicals).

POP Regulation (Persistent Organic Pollutants)

Contains no substance(s) listed on the POP list (Regulation EU 2019/1021 on persistent organic pollutants).

Ozone Regulation (2024/590)

Contains no substance(s) listed on the Ozone Depletion list (Regulation EU 2024/590 on substances that deplete the ozone layer).

Explosives Precursors Regulation (2019/1148)

Contains no substance(s) listed on the Explosives Precursors list (Regulation EU 2019/1148 on the marketing and use of explosives precursors).

Drug Precursors Regulation (273/2004)

Contains no substance(s) listed on the Drug Precursors list (Regulation EC 273/2004 on the manufacture and the placing on market of certain substances used in the illicit manufacture of narcotic drugs and psychotropic substances).

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15.1.2. National regulations

No additional information available

15.2. Chemical safety assessment

Chemical safety assessments for substances in this mixture were not carried out.

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SECTION 16: Other information

Data sources

: REGULATION (EC) No 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006.

Changes compared to the previous version

Abbreviations and acronyms:

ADR	European Agreement concerning the International Carriage of Dangerous Goods by Road
CLP	Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures
DMEL	Derived Minimal Effect Level
DNEL	Derived No-Effect Level
EC50	The effective concentration of substance that causes 50% of the maximum response (Median Effective Concentration)
IATA	International Air Transport Association
IMDG	"International Maritime Dangerous Goods Code" for the transport of dangerous goods by sea
LC50	Lethal Concentration to 50 % of a test population (Median Lethal Concentration)
LD50	Lethal Dose to 50% of a test population (Median Lethal Dose)
NOEC/L	No Observed Effect Concentration/Level
OECD	Organisation for Economic Cooperation and Development
PBT	Persistent, Bioaccumulative and Toxic substance
PNEC	Predicted No-Effect Concentration
REACH	Regulation (EC) No 1907/2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals
SDS	Safety Data Sheet
STP	Sewage Treatment Plant
UFI	Unique Formula Identifier
vPvB	Very Persistent and Very Bioaccumulative
Full text of H- and EUH-ph	rases:

Acute Tox. 4 (Inhalation)	Acute toxicity (inhal.), Category 4
Skin Sens. 1	Skin sensitisation, Category 1
STOT SE 3	Specific target organ toxicity – Single exposure, Category 3, Respiratory tract irritation
H317	May cause an allergic skin reaction.
H332	Harmful if inhaled.
H335	May cause respiratory irritation.
EUH204	Contains isocyanates. May produce an allergic reaction.

SDS EU (REACH Annex II)

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.