



Das Original

# Part A LiqRep Plastic - Isocyanate

## Safety Data Sheet

according to UK REACH

Date of issue: 12.07.2024

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

#### 1.1. Product identifier

Product form : Mixture  
Product name : Part A LiqRep Plastic - Isocyanate  
Product code : B53.900

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

##### 1.2.1. Relevant identified uses

Main use category : Industrial use, Professional use  
Use of the substance/mixture : Two-component glue: Isocyanate

##### 1.2.2. Uses advised against

Restrictions on use : Consumer use, In household use

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

##### Manufacturer (Germany)

ElringKlinger AG  
Max-Eyth-Straße 2  
72581 Dettingen/Erms - Germany  
T +49 (0)7123 724 799  
[det.iam.sdb@elringklinger.com](mailto:det.iam.sdb@elringklinger.com)

##### Supplier

##### Manufacturer (England)

Elring Parts Ltd  
Unit 2, Derwent Court  
Earlsway Team Valley Trading Estate  
Gateshead  
Tyne and Wear  
NE11 TF - England  
Sales T +44 191 4915678 - F +44 191 4875001  
[sales@elringparts.co.uk](mailto:sales@elringparts.co.uk)

Safety Data Sheet: DLAC Dienstleistungsagentur Chemie GmbH, E-mail: [sds@dlac-gmbh.de](mailto:sds@dlac-gmbh.de)

#### 1.4. Emergency telephone number

Country	Organisation/Company	Address	Emergency number
Germany	Giftinformationszentrum (GIZ-Nord) Universitätsmedizin Göttingen - Georg-August-Universität	Robert-Koch Straße 40 37075 Göttingen	+49 551 19240

### SECTION 2: Hazards identification

#### 2.1. Classification of the substance or mixture

##### Classification according to GB CLP

Acute toxicity (inhal.), Category 4 H332  
Skin sensitisation, Category 1 H317  
Specific target organ toxicity – Single exposure, Category 3, Respiratory tract irritation H335

Full text of H-phrases: see section 16

##### Adverse physicochemical, human health and environmental effects

May cause an allergic skin reaction. Harmful if inhaled. May cause respiratory irritation.

#### 2.2. Label elements

##### Labelling according to GB CLP

Hazard pictograms (CLP)



GHS07

Signal word (CLP) : Warning  
Hazardous ingredients : Hexamethylene-di-isocyanate, homopolymer  
Hazard statements (CLP) : H317 - May cause an allergic skin reaction.  
H332 - Harmful if inhaled.

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Precautionary statements (CLP)	H335 - May cause respiratory irritation. : 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.
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

### 3.2. Mixtures

Name	Product identifier	%	Classification according to GB CLP
Hexamethylene-di-isocyanate, homopolymer	(CAS No) 28182-81-2 (EC No) 500-060-2	< 90	Acute Tox. 4 (Inhalation), H332 Skin Skin. 1, H317 STOT SE 3, H335

#### Other relevant ingredients:

Name	Product identifier	Classification according to to GB CLP
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

## 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 effects, 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 medical attention and special treatment needed

Treat symptomatically. Effects of contact or inhalation 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 substance 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.
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### 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.

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### SECTION 6: Accidental release measures

#### 6.1. Personal precautions, protective equipment 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.

#### 6.1.2. For emergency responders

Protective equipment : Use personal protective equipment as required. In case of inadequate ventilation wear respiratory protection. For further information refer to section 8: "Exposure controls/personal protection".

#### 6.2. Environmental precautions

Avoid release to the environment. Prevent entry to sewers and public waters. Notify authorities if product enters sewers or public waters.

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

Methods for cleaning up : Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible. Keep wet with water. Sweep or shovel into suitable containers. Do not keep the container sealed – Release of carbon dioxide (CO<sub>2</sub>). After 7 – 14 days: Dispose of in accordance with relevant local regulations.

#### 6.4. Reference to other sections

Exposure controls and personal protection, see section 8. Concerning disposal elimination after cleaning, see section 13.

### SECTION 7: Handling and storage

#### 7.1. Precautions for safe handling

Precautions for safe handling : Ensure good ventilation of the work station. Avoid breathing vapours, spray. Avoid contact with skin and eyes. Wear personal protective equipment.

Hygiene measures : Handle in accordance with good industrial hygiene and safety procedures. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. When using do not eat, drink or smoke. Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reuse.

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

Storage conditions : Store in original container. Keep container tightly closed. Store in a dry, cool and well-ventilated place. Protect from heat and direct sunlight.

Prohibitions on mixed storage : Keep away from food, drink and animal feedingstuffs. Keep away from: Water. Acids. Bases. Amines. Alcohols.

#### 7.3. Specific end use(s)

Two-component glue: Isocyanate.

### SECTION 8: Exposure controls/personal protection

#### 8.1. Control parameters

Hexamethylene-di-isocyanate, homopolymer (28182-81-2)		
United Kingdom	Local name	Isocyanates, all (as –NCO) Except methyl isocyanate
United Kingdom	WEL TWA (mg/m <sup>3</sup> )	0.02 mg/m <sup>3</sup>
United Kingdom	WEL STEL (mg/m <sup>3</sup> )	0.07 mg/m <sup>3</sup>
United Kingdom	Comments	Sen
United Kingdom	Local name	Isocyanates (applies to HDI, IPDI, TDI and MDI)
United Kingdom	BMGV	1 µmol isocyanate-derived diamine/mol creatinine in urine, Sampling time: At the end of the period of exposure

Talc (14807-96-6)		
United Kingdom	Local name	Talc, respirable dust
United Kingdom	WEL TWA (mg/m <sup>3</sup> )	1 mg/m <sup>3</sup>

Hexamethylene-di-isocyanate, homopolymer (28182-81-2)	
DNEL/DMEL (Workers)	
Acute - local effects, inhalation	1 mg/m <sup>3</sup>
Long-term - local effects, inhalation	0.5 mg/m <sup>3</sup>
PNEC (STP)	
PNEC sewage treatment plant	88 mg/l

#### 8.2. Exposure controls

Appropriate engineering controls : Provide local exhaust or general room ventilation to minimize vapour concentrations.

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Hand protection	: Wear suitable gloves (EN 374). Butyl rubber. > 0.5 mm. Fluoroelastomer (FKM). > 0.4 mm. The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.
Eye protection	: Chemical goggles or safety glasses (EN 166).
Skin and body protection	: Wear suitable protective clothing.
Respiratory protection	: In case of inadequate ventilation wear respiratory protection. Respiratory protection with filter type A/P (EN 14387).
Environmental exposure controls	: Avoid release to the environment.

## SECTION 9: Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

Appearance	: Liquid. Colourless
Odour	: Characteristic, slight
Odour threshold	: No data available
pH	: Not applicable
Melting point/freezing point	: No data available
Initial boiling point and boiling range	: No data available
Flash point	: 228 °C (hexamethylene-di-isocyanate)
Evaporation rate	: No data available
Flammability (solid, gas)	: No data available
Upper/lower flammability or explosive limits	: No data available
Vapour pressure	: No data available
Vapour density	: No data available
Relative density	: No data available
Density	: No data available
Solubility(ies)	: Water: Not miscible.
Partition coefficient: n-octanol/water	: Not applicable
Auto-ignition temperature	: No data available
Decomposition temperature	: 250 °C (hexamethylene-di-isocyanate)
Viscosity	: No data available
Explosive properties	: None
Oxidising properties	: None

### 9.2. Other information

No additional information available

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

Polymerizes on exposure to water (moisture): Polyurea.

### 10.2. Chemical stability

Stable under use and storage conditions as recommended in section 7.

### 10.3. Possibility of hazardous reactions

Reacts violently with: Amines, alcohols. Contact with water liberates carbon dioxide (CO<sub>2</sub>).

### 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

Under normal conditions of storage and use, hazardous decomposition products should not be produced. In case of fire: Carbon dioxide. Carbon monoxide. Toxic gases and vapours. Isocyanates. Nitrogen oxides. Hydrogen cyanide.

## SECTION 11: Toxicological information

### 11.1. Information on toxicological effects

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	: Not classified Based on available data, the classification criteria are not met
Respiratory or skin sensitisation	: May cause an allergic skin reaction.
Germ cell mutagenicity	: Not classified Based on available data, the classification criteria are not met
Carcinogenicity	: Not classified 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 exposure)	: Not classified Based on available data, the classification criteria are not met
Aspiration hazard	: Not classified Based on available data, the classification criteria are not met
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. Endocrine disruption for human health: The substance/mixture has no endocrine disrupting properties.

## SECTION 12: Ecological information

### 12.1. Toxicity

Acute aquatic toxicity	: Not classified
Chronic aquatic toxicity	: Not classified

#### Hexamethylene-di-isocyanate, homopolymer (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, homopolymer (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. Other adverse effects

Endocrine disruption for the environment	: The substance/mixture has no endocrine disrupting properties.
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## SECTION 13: Disposal considerations

### 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.
List of Waste (LoW) code	: 08 05 01* - waste isocyanates
Waste code	: The valid LoW waste code numbers are source related. The manufacturer is therefore unable to specify LoW waste codes for the articles or products used in the various sectors. The LoW codes listed are intended as a recommendation for users.

## SECTION 14: Transport information

In accordance with ADR / IMDG / IATA

### 14.1. UN number

UN-No. (ADR)	: Not applicable
UN-No. (IMDG)	: Not applicable

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UN-No. (IATA)	: Not applicable
<b>14.2. UN proper shipping name</b>	
Proper Shipping Name (ADR)	: Not applicable
Proper Shipping Name (IMDG)	: Not applicable
Proper Shipping Name (IATA)	: Not applicable
<b>14.3. Transport hazard class(es)</b>	
<b>ADR</b>	
Transport hazard class(es) (ADR)	: Not applicable
<b>IMDG</b>	
Transport hazard class(es) (IMDG)	: Not applicable
<b>IATA</b>	
Transport hazard class(es) (IATA)	: Not applicable
<b>14.4. Packing group</b>	
Packing group (ADR)	: Not applicable
Packing group (IMDG)	: Not applicable
Packing group (IATA)	: Not applicable
<b>14.5. Environmental hazards</b>	
Dangerous for the environment	: No
Marine pollutant	: No
Other information	: No supplementary information available.
<b>14.6. Special precautions for user</b>	
<b>Overland transport</b>	
Not applicable	
<b>Transport by sea</b>	
Not applicable	
<b>Air transport</b>	
Not applicable	
<b>14.7. Transport in bulk according to Annex II of Marpol and the IBC Code</b>	
Not applicable	
<b>SECTION 15: Regulatory information</b>	
<b>15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture</b>	
Contains no substance(s) listed on UK REACH Annex XIV (Authorisation List).	
Contains no substance (s) listed on the UK REACH Candidate List.	
<b>15.2. Chemical safety assessment</b>	
Chemical safety assessments for substances in this mixture were not carried out.	
<b>SECTION 16: Other information</b>	
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. The Chemicals (Health and Safety) and Genetically Modified Organisms (Contained Use) (Amendment etc.) (EU Exit) Regulations 2019 No. 720 as amended by The Chemicals (Health and Safety) and Genetically Modified Organisms (Contained Use) (Amendment etc.) (EU Exit) Regulations 2020.
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

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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-phrases:

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.

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.