



Das Original

# Part B LiqRep Plastic - Polyol

## Safety Data Sheet

according to Regulation (EU) 2020/878

Date of issue: 12.07.2024

Revision date: -

Version/Replaced version: 1.0/-

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

#### 1.1. Product identifier

Product form : Mixture  
Product name : Part B LiqRep Plastic - Polyol  
Product code : B53.900  
UFI : MEG2-V08K-5003-Q9DN

#### 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: Polyol

##### 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

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

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 Regulation (EC) No 1272/2008 [CLP]

Serious eye damage/eye irritation, Category 2 H319

Full text of H-phrases: see section 16

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

Causes serious eye irritation.

#### 2.2. Label elements

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

Hazard pictograms (CLP) :



GHS07

Signal word (CLP) : Warning  
Hazard statements (CLP) : H319 - Causes serious eye irritation.  
Precautionary statements (CLP) : P264 - Wash hands and face thoroughly after handling.  
P280 - Wear protective gloves/protective clothing/eye protection.  
P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
P337+P313 - If eye irritation persists: Get medical advice/attention.  
EUH-statements : EUH208 - Contains tetraethyl N, N'-(methylenedicyclohexane-4,1-diyl)bis-DL-aspartate. May produce an allergic reaction.

#### 2.3. Other hazards

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.

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### SECTION 3: Composition/information on ingredients

#### 3.1. Substances

Not applicable

#### 3.2. Mixtures

Name	Product identifier	%	Classification according to Regulation (EC) No 1272/2008 [CLP]
1,1',1'',1'''-ethylenedinitrilotetrapropan-2-ol	(CAS No) 102-60-3 (EC No) 203-041-4 (REACH No) 01-2119552434-41-xxxx	< 20	Eye Irrit. 2, H319
2-butyl-2-ethylpropanediol	(CAS No) 115-84-4 (EC No) 204-111-7 (REACH No) 01-2119450133-52-xxxx	< 5	Eye Irrit. 2, H319
2,2,4-trimethylpentane-1,3-diol	(CAS No) 144-19-4 (EC No) 205-619-1 (REACH No) 01-2119941373-40-xxxx	< 5	Eye Irrit. 2, H319
Tetraethyl N, N'-(methylenedicyclohexane-4,1-diyl)bis-DL-aspartate	(CAS No) 136210-30-5 (EC No) 429-270-1 (Index No) 607-521-00-8 (REACH No) 01-0000017556-64-xxxx	< 1	Skin Sens. 1, H317 Aquatic Chronic 3, H412

Other relevant ingredients:

Name	Product identifier	Classification according to Regulation (EC) No 1272/2008 [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.
First-aid measures after skin contact	: Remove/Take off immediately all contaminated clothing. Wash with plenty of soap and water.
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. If eye irritation persists: Get medical advice/attention.
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 eye contact	: Causes serious eye irritation.
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#### 4.3. Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

### 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. Nitrogen oxides.
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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.

### 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.
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##### 6.1.1. For non-emergency personnel

Emergency procedures	: Evacuate unnecessary personnel.
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<b>6.1.2. For emergency responders</b>	
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".

<b>6.2. Environmental precautions</b>	
Prevent entry to sewers and public waters.	

<b>6.3. Methods and material for containment and cleaning up</b>	
Methods for cleaning up	: Wipe up with absorbent material (for example cloth). Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible. Keep in suitable, closed containers for disposal. Dispose of in accordance with relevant local regulations.

<b>6.4. Reference to other sections</b>	
Exposure controls and personal protection, see section 8. Concerning disposal elimination after cleaning, see section 13.	

## SECTION 7: Handling and storage

<b>7.1. Precautions for safe handling</b>	
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.

<b>7.2. Conditions for safe storage, including any incompatibilities</b>	
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.

<b>7.3. Specific end use(s)</b>	
Two-component glue: Polyol.	

## SECTION 8: Exposure controls/personal protection

<b>8.1. Control parameters</b>	
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<b>Talc (14807-96-6)</b>		
Ireland	Local name	Talc
Ireland	OEL (8 hours ref) (mg/m³)	0.8 mg/m³ (respirable dust) 10 mg/m³ (total inhalable dust)

<b>1,1',1'',1'''-ethylenedinitrilotetrapropan-2-ol (102-60-3)</b>	
DNEL/DMEL (Workers)	
Long-term - systemic effects, inhalation	29.4 mg/m³
Long-term - systemic effects, dermal	4.2 mg/kg bodyweight/day
DNEL/DMEL (General population)	
Long-term - systemic effects, oral	2.5 mg/kg bodyweight/day
Long-term - systemic effects, dermal	2.5 mg/kg bodyweight/day
Long-term - systemic effects, inhalation	8.7 mg/m³
PNEC (Water)	
PNEC aqua (freshwater)	0.295 mg/l
PNEC aqua (marine water)	0.029 mg/l
PNEC aqua (intermittent, freshwater)	1.2 mg/l
PNEC (Sediment)	
PNEC sediment (freshwater)	1.18 mg/kg dry weight
PNEC sediment (marine water)	0.118 mg/kg dry weight
PNEC (Soil)	
PNEC soil	0.063 mg/kg dry weight
PNEC (STP)	
PNEC sewage treatment plant	100 mg/l

<b>8.2. Exposure controls</b>	
Appropriate engineering controls	: Provide local exhaust or general room ventilation to minimize vapour concentrations.
Hand protection	: Wear suitable gloves (EN 374). 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).

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Environmental exposure controls : Avoid release to the environment.

### SECTION 9: Physical and chemical properties

#### 9.1. Information on basic physical and chemical 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 : 240 °C (1,1',1'',1'''-ethylenedinitrilotetrapropan-2-ol)  
Flammability : No data available  
Lower and upper explosion limit : No data available  
Flash point : 191 °C (1,1',1'',1'''-ethylenedinitrilotetrapropan-2-ol)  
Auto-ignition temperature : No data available  
Decomposition temperature : No data available  
pH : 9  
Kinematic viscosity : No data available  
Solubility : No data available  
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 hazard 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

No dangerous reactions known under normal conditions of use.

#### 10.2. Chemical stability

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

#### 10.3. Possibility of hazardous reactions

None under normal use.

#### 10.4. Conditions to avoid

Protect from heat and direct sunlight.

#### 10.5. Incompatible materials

No additional information available

#### 10.6. Hazardous decomposition products

No hazardous decomposition products known. In case of fire: Toxic fumes may be released. Carbon dioxide. Carbon monoxide. Nitrogen oxides.

### SECTION 11: Toxicological information

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

Acute toxicity : Not classified  
Based on available data, the classification criteria are not met

1,1',1'',1'''-ethylenedinitrilotetrapropan-2-ol (102-60-3)	
LD50 oral rat	2890 mg/kg
LD50 dermal rat	> 2000 mg/kg

Skin corrosion/irritation : Not classified  
Based on available data, the classification criteria are not met  
Serious eye damage/irritation : Causes serious eye irritation.  
Respiratory or skin sensitisation : Not classified  
Based on available data, the classification criteria are not met

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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)	: Not classified Based on available data, the classification criteria are not met
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

### 11.2. Information on other hazards

#### 11.2.1. Endocrine disrupting properties

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 : Based on available data, the classification criteria are not met

## SECTION 12: Ecological information

### 12.1. Toxicity

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

1,1',1'',1'''-ethylenedinitrilotetrapropan-2-ol (102-60-3)	
LC50 fish	> 120 mg/l 96 h, Danio rerio
EC10 algae	14.746 mg/l 72 h, Raphidocelis subcapitata
NOEC daphnia	≥ 12 mg/l 21 d, Daphnia magna
NOEC algae	3.2 mg/l 72 h, Raphidocelis subcapitata

### 12.2. Persistence and degradability

1,1',1'',1'''-ethylenedinitrilotetrapropan-2-ol (102-60-3)	
Persistence and degradability	Not readily biodegradable.
Biodegradation	20 %, 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.

### 12.7. Other adverse effects

No additional information available

## 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.
European List of Waste (LoW) code	: 08 04 09* - waste adhesives and sealants containing organic solvents or other dangerous substances
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.

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### 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  
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

##### IATA

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

##### 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).

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### 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).

### 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.

## 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-phrases:

Aquatic Chronic 3	Hazardous to the aquatic environment - Chronic Hazard, Category 3
Eye Irrit. 2	Serious eye damage/eye irritation, Category 2
Skin Sens. 1	Skin sensitisation, Category 1
H317	May cause an allergic skin reaction.
H319	Causes serious eye irritation.
H412	Harmful to aquatic life with long lasting effects.
EUH208	Contains .... 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.