



Das Original

Part A LiqRep Metal - Hardener

Safety Data Sheet

according to Federal Register / Vol. 89, No. 98 / Monday, May 20, 2024 / Rules and Regulations

Date of issue: 09/27/2024

Revision date: 08/20/2026

Version/Replaced version: 3.0/2.0

SECTION 1: Identification

1.1. Product identifier

Product form : Mixture
Product name : Part A LiqRep Metal - Hardener
Product code : B50.920

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

Use of the substance/mixture : Two-component glue: Hardener

1.3. Details of the supplier of the safety data sheet

Manufacturer (Germany)

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

Supplier

Manufacturer (USA)

ElringKlinger Texas, LLC.
Ridgeview 35
4210 IH-35
San Antonio, TX 78218 - USA
Fon +1 210 253 8182
Info.us@elringklinger.com

Safety Data Sheet: DLAC Dienstleistungsagentur Chemie GmbH, E-mail: sds@dlac-gmbh.de

1.4. Emergency telephone number

24-hour emergency contact number : +1 872 5888271 (EKA)

SECTION 2: Hazard identification

2.1. Classification of the substance or mixture

GHS-US classification in accordance with paragraph (d) of § 1910.1200

Skin corrosion/irritation, Category 1C H314
Serious eye damage/eye irritation, Category 1 H318

Full text of H-phrases: see section 16

2.2. Label elements

GHS-US labelling in accordance with paragraph (f) of § 1910.1200

Hazard pictograms (GHS-US) :



GHS05

Signal word (GHS-US) : Danger
Hazard statements (GHS-US) : H314 - Causes severe skin burns and eye damage.
Precautionary statements (GHS-US) : P101 - If medical advice is needed, have product container or label at hand.
P102 - Keep out of reach of children.
P260 - Do not breathe mist/vapors/spray.
P264 - Wash hands thoroughly after handling.
P280 - Wear protective gloves, protective clothing, eye protection, face protection.
P301+P330+P331 - If swallowed: Rinse mouth. Do NOT induce vomiting.
P303+P361+P353 - If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water.
P304+P340 - If inhaled: Remove person to fresh air and keep comfortable for breathing.
P305+P351+P338 - If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P310 - Immediately call a poison center/doctor.
P363 - Wash contaminated clothing before reuse.
P405 - Store locked up.
P501 - Dispose of contents/container to an authorized waste collection point.

2.3. Other hazards

No additional information available

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2.4. Unknown acute toxicity (GHS-US)
Not applicable

SECTION 3: Composition/information on ingredients

3.1. Substances
Not applicable

3.2. Mixtures			
Name	Product identifier	%	GHS-US Classification in accordance with paragraph (d) of § 1910.1200
2,4,6-tris(dimethylaminomethyl)phenol	(CAS No) 90-72-2	10 - 20	Skin Corr. 1C, H314 Eye Dam. 1, H318
Bis[(dimethylamino)methyl]phenol	(CAS No) 71074-89-0	1 - 5	Skin Corr. 1C, H314

Trade secret claim in accordance with paragraph (i) of § 1910.1200: The exact percentage (concentration) of composition has been withheld as a trade secret.
Full text of H-statements: 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. Immediately call a poison center/doctor.
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. Immediately call a poison center/doctor.
First aid measures after ingestion	: Rinse mouth. Drink water as a precaution. Do NOT induce vomiting. Immediately call a poison center/doctor.

4.2. Most important symptoms and effects, both acute and delayed	
Symptoms/effects after skin contact	: Causes severe skin burns and eye damage.
Symptoms/effects after eye contact	: Causes serious eye damage.

4.3. Indication of any immediate medical attention and special treatment needed
Treat symptomatically.

SECTION 5: Fire-fighting 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	: Carbon dioxide. Carbon monoxide. Toxic gases and vapors. Nitrogen oxides. Ammonia.

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	: Provide adequate ventilation. Do not breathe vapors/spray. Avoid contact with skin and eyes.
Emergency procedures	: Evacuate unnecessary personnel.
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. Methods and materials for containment and cleaning up	
Methods for cleaning up	: If spilled, may cause the floor to be slippery. Wipe up with absorbent material (for example cloth). Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible.
For containment	: Keep in suitable, closed containers for disposal.
Other information	: Dispose of in accordance with relevant local regulations.

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SECTION 7: Handling and storage

7.1. Precautions for safe handling

- Precautions for safe handling : Ensure good ventilation of the work station. Avoid breathing vapors, 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. Wash contaminated clothing before reuse.

7.2. Conditions for safe storage, including any incompatibilities

- Technical measures : Take all necessary measures to avoid accidental discharge of products into drains and waterways due to the rupture of containers or transfer systems.
- 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. Store locked up.
- Storage temperature : 50 – 68 °F (10 – 20 °C)
- Prohibitions on mixed storage : Keep away from food, drink and animal feedingstuffs.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

No additional information available

8.2. Appropriate engineering controls

- Appropriate engineering controls : Provide local exhaust or general room ventilation to minimize dust/vapor concentrations.

8.3. Individual protection measures, such as personal protective equipment

- Hand protection : Wear suitable gloves. Nitrile rubber. Fluoroelastomer (FKM). PVC. ≥ 0.5 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.
- Skin and body protection : Wear suitable protective clothing.
- Respiratory protection : Where exposure through inhalation may occur from use, respiratory protection equipment is recommended. Respiratory protection with filter type A2/P3.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

- Physical state : Liquid. Paste.
- Color : Black
- Odor (includes odor threshold) : Characteristic
- Melting point/freezing point : No data available
- Boiling point (or initial boiling point or boiling range) : No data available
- Flammability : No data available
- Lower and upper explosion limit/flammability limit : No data available
- Flash point : No data available
- Auto-ignition temperature : No data available
- Decomposition temperature : No data available
- pH : No data available
- Kinematic viscosity : No data available
- Solubility : No data available
- Partition coefficient n-octanol/water (log value) : Not applicable
- Vapor pressure (includes evaporation rate) : No data available
- Density and/or relative density : No data available
- Relative vapor density : No data available
- Particle characteristics : Not applicable

SECTION 10: Stability and reactivity

10.1. Reactivity

No dangerous reactions known under normal conditions of use.

10.2. Chemical stability

Stable at ambient temperature and under normal conditions of use and storage.

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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 at room temperature. In case of fire: Carbon dioxide. Carbon monoxide. Toxic gases and vapors. Nitrogen oxides.	

SECTION 11: Toxicological information

11.1.	Information on toxicological effects
Acute toxicity	: Not classified
Skin corrosion/irritation	: Causes severe skin burns and eye damage.
Serious eye damage/irritation	: Causes serious eye damage.
Respiratory or skin sensitization	: Not classified
Germ cell mutagenicity	: Not classified
Carcinogenicity	: Not classified
Reproductive toxicity	: Not classified
Specific target organ toxicity (single exposure)	: Not classified
Specific target organ toxicity (repeated exposure)	: Not classified
Aspiration hazard	: Not classified
Symptoms/effects after inhalation	: No known effects from this product.
Symptoms/effects after ingestion	: No known effects from this product.
Symptoms/effects after skin contact	: Causes severe skin burns and eye damage.
Symptoms/effects after eye contact	: Causes serious eye damage.

2,4,6-tris-(Dimethylaminomethyl)phenol (90-72-2)	
LD50 oral rat	2169 mg/kg

SECTION 12: Ecological information

12.1.	Ecotoxicity
Ecology - general	: To our knowledge, the product does not present any particular risk, under normal conditions of use.
Acute aquatic toxicity	: Not classified
Chronic aquatic toxicity	: Not classified

2,4,6-tris-(Dimethylaminomethyl)phenol (90-72-2)	
LC50 fish	> 100 mg/l 96 h, Cyprinus carpio
EC50 crustacean	> 100 mg/l 48 h, Daphnia magna
EC50 algae	46.7 mg/l 72 h, Raphidocelis subcapitata
NOEC algae	6.44 mg/l 72 h, Raphidocelis subcapitata

12.2.	Persistence and degradability
2,4,6-tris-(Dimethylaminomethyl)phenol (90-72-2)	
Persistence and degradability	Not readily biodegradable.
Biodegradation	4 %, 28 d (OECD 301D)

12.3.	Bioaccumulative potential
2,4,6-tris-(Dimethylaminomethyl)phenol (90-72-2)	
Partition coefficient n-octanol/water (Log Pow)	-0.66 (21.5 °C)

12.4.	Mobility in soil
No additional information available	

12.5.	Other adverse effects
Effect on global warming	: No known effects from this product.

SECTION 13: Disposal considerations

13.1.	Waste treatment methods
Waste treatment methods	: Discharging into rivers and drains is forbidden. Dispose of in accordance with relevant local regulations.

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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.

SECTION 14: Transport information

In accordance with DOT / ADR / IMDG / IATA

14.1. UN number

UN-No. (DOT)	: UN 2735
UN-No. (ADR)	: UN 2735
UN-No. (IMDG)	: UN 2735
UN-No. (IATA)	: UN 2735

14.2. UN proper shipping name

Proper Shipping Name (DOT)	: Amines, liquid, corrosive, n.o.s. (2,4,6-tris(dimethylaminomethyl)phenol)
Proper Shipping Name (ADR)	: AMINES, LIQUID, CORROSIVE, N.O.S. (2,4,6-tris(dimethylaminomethyl)phenol)
Proper Shipping Name (IMDG)	: AMINES, LIQUID, CORROSIVE, N.O.S. (2,4,6-tris(dimethylaminomethyl)phenol)
Proper Shipping Name (IATA)	: Amines, liquid, corrosive, n.o.s. (2,4,6-tris(dimethylaminomethyl)phenol)
Transport document description (DOT)	: UN 2735 AMINES, LIQUID, CORROSIVE, N.O.S. (2,4,6-tris(dimethylaminomethyl)phenol), 8, III
Transport document description (ADR)	: UN 2735 AMINES, LIQUID, CORROSIVE, N.O.S. (2,4,6-tris(dimethylaminomethyl)phenol), 8, III, (E)
Transport document description (IMDG)	: UN 2735 AMINES, LIQUID, CORROSIVE, N.O.S. (2,4,6-tris(dimethylaminomethyl)phenol), 8, III
Transport document description (IATA)	: UN 2735 Amines, liquid, corrosive, n.o.s. (2,4,6-tris(dimethylaminomethyl)phenol), 8, III

14.3. Transport hazard class(es)

DOT

Transport hazard class(es) (DOT)	: 8
Danger labels (DOT)	: 8



ADR

Transport hazard class(es) (ADR)	: 8
Danger labels (ADR)	: 8



IMDG

Transport hazard class(es) (IMDG)	: 8
Danger labels (IMDG)	: 8



IATA

Transport hazard class(es) (IATA)	: 8
Danger labels (IATA)	: 8



14.4. Packing group

Packing group (DOT)	: III
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Packing group (ADR)	: III
Packing group (IMDG)	: III
Packing group (IATA)	: III
14.5. Environmental hazards	
Dangerous for the environment	: No
Marine pollutant	: No
Other information	: No supplementary information available
14.6. Special precautions	
DOT	
Special provisions (§ 172.102)	: IB3, T7, TP1, TP28
DOT Packaging Exceptions (49 CFR 173.xxx)	: 154
DOT Packaging Non Bulk (49 CFR 173.xxx)	: 203
DOT Packaging Bulk (49 CFR 173.xxx)	: 241
DOT Quantity Limitations Passenger aircraft/rail (49 CFR 173.27)	: 5 L
DOT Quantity Limitations Cargo aircraft only (49 CFR 175.75)	: 60 L
DOT Vessel Stowage Location	: A - The material may be stowed "on deck" or "under deck" on a cargo vessel and on a passenger vessel.
DOT Vessel Stowage Other	: 52
ADR	
Classification code (ADR)	: C7
Special provisions (ADR)	: 274
Limited quantities (ADR)	: 5L
Excepted quantities (ADR)	: E1
Packing instructions (ADR)	: P001, IBC03, LP01, R001
Mixed packing provisions (ADR)	: MP19
Portable tank and bulk container instructions (ADR)	: T7
Portable tank and bulk container special provisions (ADR)	: TP1, TP28
Tank code (ADR)	: L4BN
Vehicle for tank carriage	: AT
Transport category (ADR)	: 3
Special provisions for carriage - Packages (ADR)	: V12
Hazard identification number (Kemler No.)	: 80
Orange plates	: 80 2735
Tunnel restriction code (ADR)	: E
IMDG	
Special provisions (IMDG)	: 223, 274
Limited quantities (IMDG)	: 5 L
Excepted quantities (IMDG)	: E1
Packing instructions (IMDG)	: P001, LP01
IBC packing instructions (IMDG)	: IBC03
Tank instructions (IMDG)	: T7
Tank special provisions (IMDG)	: TP1, TP28
EmS-No. (Fire)	: F-A
EmS-No. (Spillage)	: S-B
Stowage category (IMDG)	: A
Segregation (IMDG)	: SGG18, SG35
IATA	
PCA Excepted quantities (IATA)	: E1
PCA Limited quantities (IATA)	: Y841

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PCA limited quantity max net quantity (IATA)	: 1L
PCA packing instructions (IATA)	: 852
PCA max net quantity (IATA)	: 5L
CAO packing instructions (IATA)	: 856
CAO max net quantity (IATA)	: 60L
Special provisions (IATA)	: A3, A803
ERG code (IATA)	: 8L

14.7. Maritime transport in bulk according to IMO instruments

Not applicable

SECTION 15: Regulatory information

15.1. US Federal regulations

All substances in this mixture are listed on the United States TSCA (Toxic Substances Control Act) inventory
Active Status: Active

15.2. International regulations

Canada

All substances in this mixture are listed on Canadian DSL (Domestic Sustances List)

EU-Regulations

All substances in this mixture are listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances)

15.3. US State regulations

California Proposition 65

This product does not contain any substance(s) known to the state of California to cause cancer.
This product does not contain any substance(s) known to the state of California to cause developmental toxicity.
This product does not contain any substance(s) known to the state of California to cause reproductive toxicity.

SECTION 16: Other information, including date of preparation or last revision

Date of Preparation : August 20, 2026

Abbreviations and acronyms:

ADR	European Agreement concerning the International Carriage of Dangerous Goods by Road
DOT	Department of Transport, U.S. Department of Transportation Ground (49 CFR)
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
SDS	Safety Data Sheet

Full text of H-phrases:

Eye Dam. 1	Serious eye damage/eye irritation, Category 1
Skin Corr. 1C	Skin corrosion/irritation, Category 1C
H314	Causes severe skin burns and eye damage.
H318	Causes serious eye damage.

SDS US (GHS HazCom 2024)

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.



Das Original

Part B LiqRep Metal - Resin

Safety Data Sheet

according to Federal Register / Vol. 89, No. 98 / Monday, May 20, 2024 / Rules and Regulations

Date of issue: 09/27/2024

Revision date: 08/20/2026

Version/Replaced version: 3.0/2.0

SECTION 1: Identification

1.1. Product identifier

Product form : Mixture
Product name : Part B LiqRep Metal - Resin
Product code : B50.920

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

Use of the substance/mixture : Two-component glue: Resin

1.3. Details of the supplier of the safety data sheet

Manufacturer (Germany)

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

Supplier

Manufacturer (USA)

ElringKlinger Texas, LLC.
Ridgeview 35
4210 IH-35
San Antonio, TX 78218 - USA
Fon +1 210 253 8182
Info.us@elringklinger.com

Safety Data Sheet: DLAC Dienstleistungsagentur Chemie GmbH, E-mail: sds@dlac-gmbh.de

1.4. Emergency telephone number

24-hour emergency contact number : +1 872 5888271 (EKA)

SECTION 2: Hazard identification

2.1. Classification of the substance or mixture

GHS-US classification in accordance with paragraph (d) of § 1910.1200

Skin corrosion/irritation, Category 2 H315
Serious eye damage/eye irritation, Category 2A H319
Sensitization - Skin, Category 1 H317

Full text of H-phrases: see section 16

2.2. Label elements

GHS-US labelling in accordance with paragraph (f) of § 1910.1200

Hazard pictograms (GHS-US) :



GHS07

Signal word (GHS-US) : Warning

Hazard statements (GHS-US) : H315 - Causes skin irritation.
H319 - Causes serious eye irritation.
H317 - May cause an allergic skin reaction.

Precautionary statements (GHS-US) : P101 - If medical advice is needed, have product container or label at hand.
P102 - Keep out of reach of children.
P261 - Avoid breathing vapors.
P264 - Wash hands thoroughly after handling.
P272 - Contaminated work clothing must not be allowed out of the workplace.
P280 - Wear protective gloves, protective clothing, eye protection, face protection.
P302+P352 - If on skin: Wash with plenty of water and soap.
P305+P351+P338 - If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P333+P313 - If skin irritation or rash occurs: Get medical advice/attention.
P337+P313 - If eye irritation persists: Get medical advice/attention.
P362+P364 - Take off contaminated clothing and wash it before reuse.
P501 - Dispose of contents/container to an authorized waste collection point.

2.3. Other hazards

No additional information available

Part B LiqRep Metal - Resin

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2.4. Unknown acute toxicity (GHS-US)
Not applicable

SECTION 3: Composition/information on ingredients

3.1. Substances
Not applicable

3.2. Mixtures			
Name	Product identifier	%	GHS-US Classification in accordance with paragraph (d) of § 1910.1200
Bis-[4-(2,3-epoxipropoxy)phenyl]propane	(CAS No) 1675-54-3	80 - 99	Eye Irrit. 2A, H319 Skin Irrit. 2, H315 Skin Sens. 1, H317 Aquatic Chronic 2, H411

Trade secret claim in accordance with paragraph (i) of § 1910.1200: The exact percentage (concentration) of composition has been withheld as a trade secret.
Full text of H-statements: 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. 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. 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 skin contact : Causes skin irritation. May cause an allergic skin reaction.

Symptoms/effects after eye contact : Causes serious eye irritation.

4.3. Indication of any immediate medical attention and special treatment needed
Treat symptomatically.

SECTION 5: Fire-fighting 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 : Carbon dioxide. Carbon monoxide. Toxic gases and vapors.

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 : Provide adequate ventilation. Do not breathe vapors. Avoid contact with skin and eyes.

Emergency procedures : Evacuate unnecessary personnel.

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. Methods and materials for containment and cleaning up

Methods for cleaning up : If spilled, may cause the floor to be slippery. Wipe up with absorbent material (for example cloth). Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible.

For containment : Keep in suitable, closed containers for disposal.

Other information : Dispose of in accordance with relevant local regulations.

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SECTION 7: Handling and storage

7.1. Precautions for safe handling

- Precautions for safe handling : Ensure good ventilation of the work station. Avoid breathing vapors, 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 must not be allowed out of the workplace. Take off contaminated clothing and wash it before reuse.

7.2. Conditions for safe storage, including any incompatibilities

- Technical measures : Take all necessary measures to avoid accidental discharge of products into drains and waterways due to the rupture of containers or transfer systems.
- 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.
- Storage temperature : 50 – 68 °F (10 – 20 °C)
- Prohibitions on mixed storage : Keep away from food, drink and animal feedingstuffs.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

No additional information available

8.2. Appropriate engineering controls

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

8.3. Individual protection measures, such as personal protective equipment

- Hand protection : Wear suitable gloves. Nitrile rubber. ≥ 0.35 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.
- Skin and body protection : Wear suitable protective clothing.
- Respiratory protection : Where exposure through inhalation may occur from use, respiratory protection equipment is recommended. Respiratory protection with filter type A/P2.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

- Physical state : Liquid
- Color : White
- Odor (includes odor threshold) : Characteristic, slight
- Melting point/freezing point : No data available
- Boiling point (or initial boiling point or boiling range) : No data available
- Flammability : No data available
- Lower and upper explosion limit/flammability limit : No data available
- Flash point : No data available
- Auto-ignition temperature : No data available
- Decomposition temperature : No data available
- pH : No data available
- Kinematic viscosity : Thixotropic behaviour
- Solubility : No data available
- Partition coefficient n-octanol/water (log value) : Not applicable
- Vapor pressure (includes evaporation rate) : No data available
- Density and/or relative density : No data available
- Relative vapor density : No data available
- Particle characteristics : Not applicable

SECTION 10: Stability and reactivity

10.1. Reactivity

No dangerous reactions known under normal conditions of use.

10.2. Chemical stability

Stable at ambient temperature and under normal conditions of use and storage.

10.3. Possibility of hazardous reactions

None under normal use.

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10.4. Conditions to avoid

Protect from heat and direct sunlight.

10.5. Incompatible materials

Oxidizing agents.

10.6. Hazardous decomposition products

No hazardous decomposition products known at room temperature. In case of fire: Carbon dioxide. Carbon monoxide. Toxic gases and vapors.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity	: Not classified
Skin corrosion/irritation	: Causes skin irritation.
Serious eye damage/irritation	: Causes serious eye irritation.
Respiratory or skin sensitization	: May cause an allergic skin reaction.
Germ cell mutagenicity	: Not classified
Carcinogenicity	: Not classified
Reproductive toxicity	: Not classified
Specific target organ toxicity (single exposure)	: Not classified
Specific target organ toxicity (repeated exposure)	: Not classified
Aspiration hazard	: Not classified
Symptoms/effects after inhalation	: No known effects from this product.
Symptoms/effects after ingestion	: No known effects from this product.
Symptoms/effects after skin contact	: Causes skin irritation. May cause an allergic skin reaction.
Symptoms/effects after eye contact	: Causes serious eye irritation.

Bis-[4-(2,3-epoxipropoxy)phenyl]propane (1675-54-3)

LD50 oral rat	> 2000 mg/kg
LD50 dermal rat	> 2000 mg/kg

SECTION 12: Ecological information

12.1. Ecotoxicity

Acute aquatic toxicity	: Not classified
Chronic aquatic toxicity	: Toxic to aquatic life with long lasting effects.

Bis-[4-(2,3-epoxipropoxy)phenyl]propane (1675-54-3)

LC50 fish	1.2 mg/l 96 h, Oncorhynchus mykiss
EC50 daphnia	1.7 mg/l 48 h, Daphnia magna
EC50 algae	> 11 mg/l 72 h, Scenedesmus capricornutum
NOEC daphnia	0.3 mg/l 21 d, Daphnia magna
NOEC algae	4.2 mg/l 72 h, Scenedesmus capricornutum

12.2. Persistence and degradability

Bis-[4-(2,3-epoxipropoxy)phenyl]propane (1675-54-3)

Persistence and degradability	Not readily biodegradable.
Biodegradation	5 %, 28 d (OECD 301 F)

12.3. Bioaccumulative potential

Bis-[4-(2,3-epoxipropoxy)phenyl]propane (1675-54-3)

Partition coefficient n-octanol/water (Log Pow)	3.242 (25 °C)
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12.4. Mobility in soil

No additional information available

12.5. Other adverse effects

Effect on global warming	: No known effects from this product.
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SECTION 13: Disposal considerations

13.1. Waste treatment methods

Waste treatment methods	: Discharging into rivers and drains is forbidden. Dispose of in accordance with relevant local regulations.
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.

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Waste disposal recommendations	: Empty the packaging completely prior to disposal. When totally empty, containers are recyclable like any other packing.
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SECTION 14: Transport information

In accordance with DOT / ADR / IMDG / IATA

14.1. UN number

UN-No. (DOT)	: UN 3082
UN-No. (ADR)	: UN 3082
UN-No. (IMDG)	: UN 3082
UN-No. (IATA)	: UN 3082

14.2. UN proper shipping name

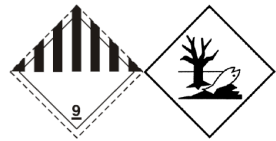
Proper Shipping Name (DOT)	: Environmentally hazardous substance, liquid, n.o.s. (bis-[4-(2,3-epoxipropoxi)phenyl]propane)
Proper Shipping Name (ADR)	: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Bis-[4-(2,3-epoxipropoxi)phenyl]propane)
Proper Shipping Name (IMDG)	: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Bis-[4-(2,3-epoxipropoxi)phenyl]propane)
Proper Shipping Name (IATA)	: Environmentally hazardous substance, liquid, n.o.s. (bis-[4-(2,3-epoxipropoxi)phenyl]propane)
Transport document description (DOT)	: UN 3082 Environmentally hazardous substance, liquid, n.o.s. (bis-[4-(2,3-epoxipropoxi)phenyl]propane), 9, III
Transport document description (ADR)	: UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Bis-[4-(2,3-epoxipropoxi)phenyl]propane), 9, III, (-)
Transport document description (IMDG)	: UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Bis-[4-(2,3-epoxipropoxi)phenyl]propane), 9, III, MARINE POLLUTANT
Transport document description (IATA)	: UN 3082 Environmentally hazardous substance, liquid, n.o.s. (bis-[4-(2,3-epoxipropoxi)phenyl]propane), 9, III

14.3. Transport hazard class(es)

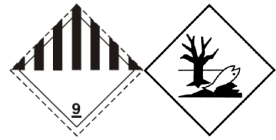
DOT	
Transport hazard class(es) (DOT)	: 9
Danger labels (DOT)	: 9



ADR	
Transport hazard class(es) (ADR)	: 9
Danger labels (ADR)	: 9



IMDG	
Transport hazard class(es) (IMDG)	: 9
Danger labels (IMDG)	: 9



IATA	
Transport hazard class(es) (IATA)	: 9
Danger labels (IATA)	: 9



14.4. Packing group

Packing group (DOT)	: III
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Packing group (ADR)	: III
Packing group (IMDG)	: III
Packing group (IATA)	: III
14.5. Environmental hazards	
Dangerous for the environment	: Yes
Marine pollutant	: Yes
Other information	: No supplementary information available
14.6. Special precautions	
DOT	
Special provisions (§ 172.102)	: 8, 146, 173, 335, 441, IB3, T4, TP1, TP29
DOT Packaging Exceptions (49 CFR 173.xxx)	: 155
DOT Packaging Non Bulk (49 CFR 173.xxx)	: 203
DOT Packaging Bulk (49 CFR 173.xxx)	: 241
DOT Quantity Limitations Passenger aircraft/rail (49 CFR 173.27)	: No limit
DOT Quantity Limitations Cargo aircraft only (49 CFR 175.75)	: No limit
DOT Vessel Stowage Location	: A - The material may be stowed "on deck" or "under deck" on a cargo vessel and on a passenger vessel.
DOT Vessel Stowage Other	: -
ADR	
Classification code (ADR)	: M6
Special provisions (ADR)	: 274, 335, 375, 601, 650
Limited quantities (ADR)	: 5L
Excepted quantities (ADR)	: E1
Packing instructions (ADR)	: P001, IBC03, LP01, R001
Special packing provisions (ADR)	: PP1
Mixed packing provisions (ADR)	: MP19
Portable tank and bulk container instructions (ADR)	: T4
Portable tank and bulk container special provisions (ADR)	: TP1, TP29
Tank code (ADR)	: LGBV
Vehicle for tank carriage	: AT
Transport category (ADR)	: 3
Special provisions for carriage - Packages (ADR)	: V12
Special provisions for carriage - Loading, unloading and handling (ADR)	: CV13
Hazard identification number (Kemler No.)	: 90
Orange plates	: 90 3082
Tunnel restriction code (ADR)	: -
IMDG	
Special provisions (IMDG)	: 274, 335, 375, 969
Limited quantities (IMDG)	: 5 L
Excepted quantities (IMDG)	: E1
Packing instructions (IMDG)	: LP01, P001
Special packing provisions (IMDG)	: PP1
IBC packing instructions (IMDG)	: IBC03
Tank instructions (IMDG)	: T4
Tank special provisions (IMDG)	: TP1, TP29
EmS-No. (Fire)	: F-A
EmS-No. (Spillage)	: S-F
Stowage category (IMDG)	: A

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IATA

PCA Excepted quantities (IATA)	: E1
PCA Limited quantities (IATA)	: Y964
PCA limited quantity max net quantity (IATA)	: 30kgG
PCA packing instructions (IATA)	: 964
PCA max net quantity (IATA)	: 450L
CAO packing instructions (IATA)	: 964
CAO max net quantity (IATA)	: 450L
Special provisions (IATA)	: A97, A158, A197, A215
ERG code (IATA)	: 9L

14.7. Maritime transport in bulk according to IMO instruments

Not applicable

SECTION 15: Regulatory information

15.1. US Federal regulations

All substances in this mixture are listed on the United States TSCA (Toxic Substances Control Act) inventory
Active Status: Active

15.2. International regulations

Canada

All substances in this mixture are listed on Canadian DSL (Domestic Sustances List)

EU-Regulations

All substances in this mixture are listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances)

15.3. US State regulations

California Proposition 65

This product does not contain any substance(s) known to the state of California to cause cancer.
This product does not contain any substance(s) known to the state of California to cause developmental toxicity.
This product does not contain any substance(s) known to the state of California to cause reproductive toxicity.

SECTION 16: Other information, including date of preparation or last revision

Date of Preparation : August 20, 2026

Abbreviations and acronyms:

ADR	European Agreement concerning the International Carriage of Dangerous Goods by Road
DOT	Department of Transport, U.S. Department of Transportation Ground (49 CFR)
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
SDS	Safety Data Sheet

Full text of H-phrases:

Aquatic Chronic 2	Hazardous to the aquatic environment - Chronic Hazard, Category 2
Eye Irrit. 2A	Serious eye damage/eye irritation, Category 2A
Skin Irrit. 2	Skin corrosion/irritation, Category 2
Skin Sens. 1	Sensitization - Skin, Category 1
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H319	Causes serious eye irritation.
H411	Toxic to aquatic life with long lasting effects.

SDS US (GHS HazCom 2024)

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.



Das Original

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Date of issue: 09/27/2024

Revision date: 08/20/2026

Version/Replaced version: 3.0/2.0

SECTION 1: Identification

1.1. Product identifier

Product form : Mixture
Product name : Part A LiqRep Plastic - Isocyanate
Product code : B50.930

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

Use of the substance/mixture : Two-component glue: Isocyanate. Industrial use, Professional use.
Restrictions on use : Uses advised against: 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
Fon +49 (0)7123 724 799
det.iam.sdb@elringklinger.com

Supplier

Manufacturer (USA)

ElringKlinger Texas, LLC.
Ridgeview 35
4210 IH-35
San Antonio, TX 78218 - USA
Fon +1 210 253 8182
Info.us@elringklinger.com

Safety Data Sheet: DLAC Dienstleistungsagentur Chemie GmbH, E-mail: sds@dlac-gmbh.de

1.4. Emergency telephone number

24-hour emergency contact number : +1 872 5888271 (EKA)

SECTION 2: Hazard identification

2.1. Classification of the substance or mixture

GHS-US classification in accordance with paragraph (d) of § 1910.1200

Acute toxicity (inhalation), Category 4 H332
Sensitization - Skin, Category 1 H317
Specific target organ toxicity – Single exposure, Category 3, Respiratory tract irritation H335

Full text of H-phrases: see section 16

2.2. Label elements

GHS-US labelling in accordance with paragraph (f) of § 1910.1200

Hazard pictograms (GHS-US) :



GHS07

Signal word (GHS-US) : Warning
Hazard statements (GHS-US) : H317 - May cause an allergic skin reaction.
H332 - Harmful if inhaled.
H335 - May cause respiratory irritation.
Precautionary statements (GHS-US) : P261 - Avoid breathing mist/vapors/spray.
P271 - Use only outdoors or in a well-ventilated area.
P272 - Contaminated work clothing must not be allowed out of the workplace.
P280 - Wear protective gloves, protective clothing, eye protection.
P302+P352 - If on skin: Wash with plenty of water and soap.
P304+P340 - If inhaled: Remove person to fresh air and keep comfortable for breathing.
P312 - Call a poison center/doctor if you feel unwell.
P333+P313 - If skin irritation or rash occurs: Get medical advice/attention.
P362+P364 - Take off contaminated clothing and wash it before reuse.
P403+P233 - Store in a well-ventilated place. Keep container tightly closed.
P405 - Store locked up.
P501 - Dispose of contents/container to an authorized waste collection point.

2.3. Other hazards

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

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2.4. Unknown acute toxicity (GHS-US)
Not applicable

SECTION 3: Composition/information on ingredients

3.1. Substances
Not applicable

3.2. Mixtures			
Name	Product identifier	%	GHS-US Classification in accordance with paragraph (d) of § 1910.1200
Hexamethylene-di-isocyanate, homopolymer	(CAS No) 28182-81-2	80 - 90	Acute Tox. 4 (Inhalation), H332 Skin Sens. 1, H317 STOT SE 3, H335

Other relevant ingredients:

Name	Product identifier	GHS-US Classification in accordance with paragraph (d) of § 1910.1200
Talc	(CAS No) 14807-96-6	Not classified

Trade secret claim in accordance with paragraph (i) of § 1910.1200: The exact percentage (concentration) of composition has been withheld as a trade secret.
Full text of H-statements: 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: Fire-fighting 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.

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 vapor/spray. Provide adequate ventilation to minimize vapor concentrations. If spilled, may cause the floor to be slippery.
Emergency procedures	: Evacuate unnecessary personnel.
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".

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6.2. Methods and materials 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.
- For containment : Keep in suitable, closed containers for disposal. Do not keep the container sealed – Release of carbon dioxide (CO₂).
- Other information : After 7 – 14 days: Dispose of in accordance with relevant local regulations.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

- Precautions for safe handling : Ensure good ventilation of the work station. Avoid breathing vapors, 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

- Technical measures : Take all necessary measures to avoid accidental discharge of products into drains and waterways due to the rupture of containers or transfer systems.
- 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. Store locked up.
- Prohibitions on mixed storage : Keep away from food, drink and animal feedingstuffs. Keep away from: Water. Acids. Bases. Amines. Alcohols.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Talc (14807-96-6)		
ACGIH	Local name	Talc, Containing no asbestos fibers
ACGIH	TLV-TWA (mg/m ³)	2 mg/m ³ (Respirable particulate matter, containing no asbestos and < 1 % crystalline silica)
ACGIH	Remark (ACGIH)	A4
NIOSH	Local name	Talc (containing no asbestos and less than 1% quartz)
NIOSH	NIOSH REL (TWA) (mg/m ³)	2 mg/m ³ (respirable fraction)
OSHA	Local name	Talc (not containing asbestos)
OSHA	OSHA PEL (mppcf)	20 mppcf
Cal/OSHA	Local name	Talc (containing no asbestos fibers)
Cal/OSHA	Cal/OSHA PEL (TWA) (mg/m ³)	2 mg/m ³ (respirable dust)

8.2. Appropriate engineering controls

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

8.3. Individual protection measures, such as personal protective equipment

- Hand protection : Wear suitable gloves. 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.
- Skin and body protection : Wear suitable protective clothing.
- Respiratory protection : Where exposure through inhalation may occur from use, respiratory protection equipment is recommended. Respiratory protection with filter type A/P.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

- Physical state : Liquid
- Color : Colorless
- Odor (includes odor threshold) : Characteristic, slight
- Melting point/freezing point : No data available
- Boiling point (or initial boiling point or boiling range) : No data available
- Flammability : No data available
- Lower and upper explosion limit/flammability limit : No data available
- Flash point : 442 °F/228 °C (hexamethylene-di-isocyanate)
- Auto-ignition temperature : No data available
- Decomposition temperature : 482 °F/250 °C (hexamethylene-di-isocyanate)

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pH	: Not applicable
Kinematic viscosity	: No data available
Solubility	: Water: Not miscible.
Partition coefficient n-octanol/water (log value)	: Not applicable
Vapor pressure (includes evaporation rate)	: No data available
Density and/or relative density	: No data available
Relative vapor density	: No data available
Particle characteristics	: Not applicable

SECTION 10: Stability and reactivity

10.1. Reactivity

Polymerizes on exposure to water (moisture): Polyurea.

10.2. Chemical stability

Stable at ambient temperature and under normal conditions of use and storage.

10.3. Possibility of hazardous reactions

Reacts violently with: Amines, alcohols. Contact with 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

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 vapors. Isocyanates. Nitrogen oxides. Hydrogen cyanide.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity	: Harmful if inhaled.
Skin corrosion/irritation	: Not classified
Serious eye damage/irritation	: Not classified
Respiratory or skin sensitization	: May cause an allergic skin reaction.
Germ cell mutagenicity	: Not classified
Carcinogenicity	: Not classified
Reproductive toxicity	: Not classified
Specific target organ toxicity (single exposure)	: May cause respiratory irritation.
Specific target organ toxicity (repeated exposure)	: Not classified
Aspiration hazard	: Not classified
Symptoms/effects after inhalation	: Harmful if inhaled. May cause respiratory irritation.
Symptoms/effects after ingestion	: No known effects from this product.
Symptoms/effects after skin contact	: May cause an allergic skin reaction.
Symptoms/effects after eye contact	: No known effects from this product.
Symptoms/effects	: 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.

Hexamethylene-di-isocyanate, homopolymer (28182-81-2)	
LD50 oral rat	> 2500 mg/kg
LD50 dermal rat	> 2000 mg/kg

SECTION 12: Ecological information

12.1. Ecotoxicity

Ecology - general	: To our knowledge, the product does not present any particular risk, under normal conditions of use.
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

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Hexamethylene-di-isocyanate, homopolymer (28182-81-2)	
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. Other adverse effects	
Effect on global warming	: No known effects from this product.
SECTION 13: Disposal considerations	
13.1. Waste treatment methods	
Waste treatment methods	: Discharging into rivers and drains is forbidden. Dispose of in accordance with relevant local regulations.
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.
SECTION 14: Transport information	
In accordance with DOT / ADR / IMDG / IATA	
14.1. UN number	
UN-No. (DOT)	: Not regulated for transport
UN-No. (ADR)	: Not regulated for transport
UN-No. (IMDG)	: Not regulated for transport
UN-No. (IATA)	: Not regulated for transport
14.2. UN proper shipping name	
Proper Shipping Name (DOT)	: No additional information available
Proper Shipping Name (ADR)	: No additional information available
Proper Shipping Name (IMDG)	: No additional information available
Proper Shipping Name (IATA)	: No additional information available
14.3. Transport hazard class(es)	
DOT	
Transport hazard class(es) (DOT)	: No additional information available
ADR	
Transport hazard class(es) (ADR)	: No additional information available
IMDG	
Transport hazard class(es) (IMDG)	: No additional information available
IATA	
Transport hazard class(es) (IATA)	: No additional information available
14.4. Packing group	
Packing group (DOT)	: No additional information available
Packing group (ADR)	: No additional information available
Packing group (IMDG)	: No additional information available
Packing group (IATA)	: No additional information available
14.5. Environmental hazards	
Dangerous for the environment	: No
Marine pollutant	: No
Other information	: No supplementary information available

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14.6. Special precautions

DOT
Not applicable

ADR
Not applicable

IMDG
Not applicable

IATA
Not applicable

14.7. Maritime transport in bulk according to IMO instruments

Not applicable

SECTION 15: Regulatory information

15.1. US Federal regulations

All substances in this mixture are listed on the United States TSCA (Toxic Substances Control Act) inventory

Active Status: Active

15.2. International regulations

Canada
All substances in this mixture are listed on Canadian DSL (Domestic Sustances List)

EU-Regulations
All substances in this mixture are listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances)

15.3. US State regulations

California Proposition 65
This product does not contain any substance(s) known to the state of California to cause cancer.
This product does not contain any substance(s) known to the state of California to cause developmental toxicity.
This product does not contain any substance(s) known to the state of California to cause reproductive toxicity.

SECTION 16: Other information, including date of preparation or last revision

Date of Preparation : August 20, 2026

Abbreviations and acronyms:

ADR	European Agreement concerning the International Carriage of Dangerous Goods by Road
DOT	Department of Transport, U.S. Department of Transportation Ground (49 CFR)
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
SDS	Safety Data Sheet

Full text of H-phrases:

Acute Tox. 4 (Inhalation)	Acute toxicity (inhalation), Category 4
Skin Sens. 1	Sensitization - Skin, 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.

SDS US (GHS HazCom 2024)

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.



Das Original

Part B LiqRep Plastic - Polyol

Safety Data Sheet

according to Federal Register / Vol. 89, No. 98 / Monday, May 20, 2024 / Rules and Regulations

Date of issue: 09/27/2024

Revision date: 08/20/2026

Version/Replaced version: 3.0/2.0

SECTION 1: Identification

1.1. Product identifier

Product form : Mixture
Product name : Part B LiqRep Plastic - Polyol
Product code : B50.930

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

Use of the substance/mixture : Two-component glue: polyol. Industrial use, Professional use.
Restrictions on use : Uses advised against: 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
Fon +49 (0)7123 724 799
det.iam.sdb@elringklinger.com

Supplier

Manufacturer (USA)

ElringKlinger Texas, LLC.
Ridgeview 35
4210 IH-35
San Antonio, TX 78218 - USA
Fon +1 210 253 8182
Info.us@elringklinger.com

Safety Data Sheet: DLAC Dienstleistungsagentur Chemie GmbH, E-mail: sds@dlac-gmbh.de

1.4. Emergency telephone number

24-hour emergency contact number : +1 872 5888271 (EKA)

SECTION 2: Hazard identification

2.1. Classification of the substance or mixture

GHS-US classification in accordance with paragraph (d) of § 1910.1200

Serious eye damage/eye irritation, Category 2A H319

Skin sensitization, Category 1 H317

Full text of H-phrases: see section 16

2.2. Label elements

GHS-US labelling in accordance with paragraph (f) of § 1910.1200

Hazard pictograms (GHS-US) :



GHS07

Signal word (GHS-US) : Warning
Hazard statements (GHS-US) : H317 - May cause an allergic skin reaction.
H319 - Causes serious eye irritation.
Precautionary statements (GHS-US) : P261 - Avoid breathing mist/vapors/spray.
P264 - Wash hands thoroughly after handling.
P272 - Contaminated work clothing must not be allowed out of the workplace.
P280 - Wear protective gloves, protective clothing, eye protection.
P302+P352 - If on skin: Wash with plenty of water and soap.
P305+P351+P338 - If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P333+P313 - If skin irritation or rash occurs: Get medical advice/attention.
P337+P313 - If eye irritation persists: Get medical advice/attention.
P362+P364 - Take off contaminated clothing and wash it before reuse.
P501 - Dispose of contents/container to an authorized waste collection point.

2.3. Other hazards

No additional information available

2.4. Unknown acute toxicity (GHS-US)

Not applicable

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SECTION 3: Composition/information on ingredients

3.1. Substances

Not applicable

3.2. Mixtures

Name	Product identifier	%	GHS-US Classification in accordance with paragraph (d) of § 1910.1200
1,1',1'',1'''-ethylenedinitrilotetrapropan-2-ol	(CAS No) 102-60-3	10 - 20	Eye Irrit. 2A, H319
2-butyl-2-ethylpropanediol	(CAS No) 115-84-4	1 - 5	Eye Irrit. 2A, H319
2,2,4-trimethylpentane-1,3-diol	(CAS No) 144-19-4	1 - 5	Eye Irrit. 2A, H319
Tetraethyl N, N'-(methylenedicyclohexane-4,1-diyl)bis-DL-aspartate	(CAS No) 136210-30-5	0.1 - 1	Skin Sens. 1, H317 Aquatic Chronic 3, H412

Other relevant ingredients:

Name	Product identifier	GHS-US Classification in accordance with paragraph (d) of § 1910.1200
Talc	(CAS No) 14807-96-6	Not classified

Trade secret claim in accordance with paragraph (i) of § 1910.1200: The exact percentage (concentration) of composition has been withheld as a trade secret.

Full text of H-statements: 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. 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. 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 skin contact	: May cause an allergic skin reaction.
Symptoms/effects after eye contact	: Causes serious eye irritation.

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

Treat symptomatically.

SECTION 5: Fire-fighting 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 vapor/spray. Provide adequate ventilation to minimize vapor concentrations. If spilled, may cause the floor to be slippery.
Emergency procedures	: Evacuate unnecessary personnel.
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".

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6.2. Methods and materials for containment and cleaning up

- 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.
- For containment : Keep in suitable, closed containers for disposal.
- Other information : Dispose of in accordance with relevant local regulations.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

- Precautions for safe handling : Ensure good ventilation of the work station. Avoid breathing vapors, 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

- Technical measures : Take all necessary measures to avoid accidental discharge of products into drains and waterways due to the rupture of containers or transfer systems.
- 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.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Talc (14807-96-6)		
ACGIH	Local name	Talc, Containing no asbestos fibers
ACGIH	TLV-TWA (mg/m³)	2 mg/m³ (Respirable particulate matter, containing no asbestos and < 1 % crystalline silica)
ACGIH	Remark (ACGIH)	A4
NIOSH	Local name	Talc (containing no asbestos and less than 1% quartz)
NIOSH	NIOSH REL (TWA) (mg/m³)	2 mg/m³ (respirable fraction)
OSHA	Local name	Talc (not containing asbestos)
OSHA	OSHA PEL (mppcf)	20 mppcf
Cal/OSHA	Local name	Talc (containing no asbestos fibers)
Cal/OSHA	Cal/OSHA PEL (TWA) (mg/m³)	2 mg/m³ (respirable dust)

8.2. Appropriate engineering controls

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

8.3. Individual protection measures, such as personal protective equipment

- Hand protection : Wear suitable gloves. 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.
- Skin and body protection : Wear suitable protective clothing.
- Respiratory protection : Where exposure through inhalation may occur from use, respiratory protection equipment is recommended. Respiratory protection with filter type A/P.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

- Physical state : Liquid. Paste.
- Color : Black
- Odor (includes odor threshold) : Characteristic, slight
- Melting point/freezing point : No data available
- Boiling point (or initial boiling point or boiling range) : 464 °F/240 °C (1,1',1'',1'''-ethylenedinitrilotetrapropan-2-ol)
- Flammability : No data available
- Lower and upper explosion limit/flammability limit : No data available
- Flash point : 376 °F/191 °C (1,1',1'',1'''-ethylenedinitrilotetrapropan-2-ol)
- Auto-ignition temperature : No data available
- Decomposition temperature : No data available
- pH : Not applicable
- Kinematic viscosity : No data available

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Solubility	: No data available
Partition coefficient n-octanol/water (log value)	: Not applicable
Vapor pressure (includes evaporation rate)	: No data available
Density and/or relative density	: No data available
Relative vapor density	: No data available
Particle characteristics	: Not applicable

SECTION 10: Stability and reactivity

10.1. Reactivity

No dangerous reactions known under normal conditions of use.

10.2. Chemical stability

Stable at ambient temperature and under normal conditions of use and storage.

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 toxicological effects

Acute toxicity	: Not classified
Skin corrosion/irritation	: Not classified
Serious eye damage/irritation	: Causes serious eye irritation.
Respiratory or skin sensitization	: May cause an allergic skin reaction.
Germ cell mutagenicity	: Not classified
Carcinogenicity	: Not classified
Reproductive toxicity	: Not classified
Specific target organ toxicity (single exposure)	: Not classified
Specific target organ toxicity (repeated exposure)	: Not classified
Aspiration hazard	: Not classified
Symptoms/effects after inhalation	: No known effects from this product.
Symptoms/effects after ingestion	: No known effects from this product.
Symptoms/effects after skin contact	: May cause an allergic skin reaction.
Symptoms/effects after eye contact	: Causes serious eye irritation.

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

SECTION 12: Ecological information

12.1. Ecotoxicity

Ecology - general	: To our knowledge, the product does not present any particular risk, under normal conditions of use.
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

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12.3. Bioaccumulative potential	
No additional information available	
12.4. Mobility in soil	
No additional information available	
12.5. Other adverse effects	
Effect on global warming	: No known effects from this product.

SECTION 13: Disposal considerations

13.1. Waste treatment methods	
Waste treatment methods	: Discharging into rivers and drains is forbidden. Dispose of in accordance with relevant local regulations.
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.

SECTION 14: Transport information

In accordance with DOT / ADR / IMDG / IATA

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

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IMDG

Not applicable

IATA

Not applicable

14.7. Maritime transport in bulk according to IMO instruments

Not applicable

SECTION 15: Regulatory information

15.1. US Federal regulations

All substances in this mixture are listed on the United States TSCA (Toxic Substances Control Act) inventory

Active Status: Active

15.2. International regulations

Canada

All substances in this mixture are listed on Canadian DSL (Domestic Sustances List)

EU-Regulations

All substances in this mixture are listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances)

15.3. US State regulations

California Proposition 65

This product does not contain any substance(s) known to the state of California to cause cancer.

This product does not contain any substance(s) known to the state of California to cause developmental toxicity.

This product does not contain any substance(s) known to the state of California to cause reproductive toxicity.

SECTION 16: Other information, including date of preparation or last revision

Date of Preparation : August 20, 2026

Abbreviations and acronyms:

ADR	European Agreement concerning the International Carriage of Dangerous Goods by Road
DOT	Department of Transport, U.S. Department of Transportation Ground (49 CFR)
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
SDS	Safety Data Sheet

Full text of H-phrases:

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

SDS US (GHS HazCom 2024)

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