

Safety Data Sheet

according to Regulation (EU) 2020/878

Date of issue: 05.07.2024 Revision date: - Version/Replaced version: 1.0/-

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

Supplier

1.1. Product identifier

Product form : Mixture

Product name : Part A LiqRep Metal – Hardener

Product code : B53.810

UFI : WNYE-U00M-X00A-771H

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

1.2.1. Relevant identified uses

Intended for general public

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

1.2.2. Uses advised against

No additional information available

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

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

1.4. Emergency telephone number

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

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

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

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

Full text of H-phrases: see section 16

Adverse physicochemical, human health and environmental effects

Causes severe skin burns and eye damage.

2.2. Label elements

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

Hazard pictograms (CLP)



GHS05

Signal word (CLP) : Dange

Hazardous ingredients : 2,4,6-tris(dimethylaminomethyl)phenol, Bis[(dimethylamino)methyl]phenol

Hazard statements (CLP) : H314 - Causes severe skin burns and eye damage.

Precautionary statements (CLP) : P101 - If medical advice is needed, have product container or label at hand.

P102 - Keep out of reach of children.

P280 - Wear protective gloves/protective clothing/eye protection.

P303+P361+P353 - IF ON SKIN (or hair): Remove/Take off immediately all contaminated

clothing. Rinse skin with water.

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 or doctor/physician.

P501 - Dispose of contents/container to hazardous or special waste collection point, in

accordance with local, regional, national and/or international regulation.

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Other hazards

The mixture does not contain substance(s) classified as PBT or vPvB in concentrations above 0.1%.

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

SECTION 3: Composition/information on ingredients

Substances

Not applicable

Mixtures

Name	Product identifier	%	Classification according to Regulation (EC) No 1272/2008 [CLP]
2,4,6-tris(dimethylaminomethyl)phenol	(CAS No) 90-72-2 (EC No) 202-013-9 (Index No) 603-069-00-0 (REACH No) 01-2119560597-27-xxxx	< 20	Skin Corr. 1C, H314 Eye Dam. 1, H318
Bis[(dimethylamino)methyl]phenol	(CAS No) 71074-89-0 (EC No) 275-162-0	< 5	Skin Corr. 1C, H314

Full text of H-phrases: see section 16

SECTION 4: First aid measures

Description of first aid measures

: Get medical advice/attention if you feel unwell. If possible show him this sheet. Failing this, First-aid measures general show him the packaging or label. Never give anything by mouth to an unconscious person.

Place the affected person in the recovery position.

Remove victim to fresh air and keep at rest in a position comfortable for breathing. First-aid measures after inhalation

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.

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present First-aid measures after eye contact 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.

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.

Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

SECTION 5: Firefighting measures

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.

Special hazards arising from the substance or mixture

Hazardous decomposition products in case of : Carbon dioxide. Carbon monoxide. Toxic gases and vapors. Nitrogen oxides. Ammonia. fire

Advice for firefighters

Firefighting instructions : Use water spray or fog for cooling exposed containers. Prevent fire-fighting water from entering

Protection during firefighting : Use a self-contained breathing apparatus and also a protective suit.

SECTION 6: Accidental release measures

Personal precautions, protective equipment and emergency procedures

: Provide adequate ventilation. Do not breathe vapours/spray. Avoid contact with skin and eyes. General measures

6.1.1. For non-emergency personnel

Emergency procedures : Evacuate unnecessary personnel.

6.1.2. For emergency responders

Use personal protective equipment as required. In case of inadequate ventilation wear Protective equipment

respiratory protection. For further information refer to section 8: "Exposure controls/personal

protection".

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6.2. Environmental precautions

Prevent entry to sewers and public waters. Notify authorities if product enters sewers or public waters.

6.3. Methods and material for containment and cleaning up

Methods for cleaning up

: 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. Keep in suitable, closed containers for disposal. Dispose of in accordance with relevant local regulations.

6.4. Reference to other sections

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

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Precautions for safe handling

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

Hygiene measures

: Handle in accordance with good industrial hygiene and safety procedures. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. When using do not eat, drink or smoke. Take off immediately all contaminated clothing and wash it before reuse.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions

: Store in original container. Keep container tightly closed. Store in a dry, cool and well-ventilated

place. Protect from heat and direct sunlight.

Storage temperature

: 10 – 20 °C

Prohibitions on mixed storage

: Keep away from food, drink and animal feedingstuffs.

7.3. Specific end use(s)

No additional information available

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

2,4,6-tris-(Dimethylaminomethyl)phenol (90-72-2)	
DNEL/DMEL (Workers)	
Acute - systemic effects, dermal	0.6 mg/kg bodyweight/day
Acute - systemic effects, inhalation	2.1 mg/m³
Long-term - systemic effects, dermal	0.15 mg/kg bodyweight/day
Long-term - systemic effects, inhalation	0.53 mg/m³
DNEL/DMEL (General population)	
Acute - systemic effects, dermal	0.075 mg/kg bodyweight/day
Acute - systemic effects, inhalation	0.13 mg/m³
Long-term - systemic effects, oral	0.075 mg/kg bodyweight/day
Long-term - systemic effects, inhalation	0.13 mg/m³
Long-term - systemic effects, dermal	0.075 mg/kg bodyweight/day
PNEC (Water)	
PNEC aqua (freshwater)	0.046 mg/l
PNEC aqua (marine water)	0.0046 mg/l
PNEC aqua (intermittent, freshwater)	0.46 mg/l
PNEC aqua (intermittent, marine water)	0.046 mg/l
PNEC (Sediment)	
PNEC sediment (freshwater)	0.262 mg/kg dwt
PNEC sediment (marine water)	0.026 mg/kg dwt
PNEC (Soil)	
PNEC soil	0.025 mg/kg dwt
PNEC (STP)	
PNEC sewage treatment plant	0.2 mg/l

8.2. Exposure controls

Appropriate engineering controls

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

Hand protection

: Wear suitable gloves (EN 374). 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 (EN 166).

Skin and body protection : Wear suitable protective clothing.

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: Where exposure through inhalation may occur from use, respiratory protection equipment is Respiratory protection

recommended. Respiratory protection with filter type A2/P3 (EN 14387).

: Avoid release to the environment. Environmental exposure controls

SECTION 9: Physical and chemical properties

Information on basic physical and chemical properties

Physical state : Liquid. Paste. Colour · White Odour : Characteristic Melting point/freezing point : No data available Boiling point or initial boiling point and boiling : No data available

range

: No data available Flammability Lower and upper explosion limit : No data available Flash point : No data available : No data available Auto-ignition temperature Decomposition temperature : No data available рΗ : No data available Kinematic viscosity No data available No data available Solubility 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

Reactivity

No dangerous reactions known under normal conditions of use.

Chemical stability

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

Possibility of hazardous reactions

None under normal use.

Conditions to avoid

Protect from heat and direct sunlight.

Incompatible materials

No additional information available

Hazardous decomposition products

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

2,4,6-tris-(Dimethylaminomethyl)phenol (90-72-2)

LD50 oral rat 2169 mg/kg

Skin corrosion/irritation : Causes severe skin burns and eye damage.

Serious eye damage/irritation : Causes serious eye damage.

Respiratory or skin sensitisation : Not classified

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Based on available data, the classification criteria are not met

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: Not classified Germ cell mutagenicity

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

Information on other hazards

Endocrine disrupting properties

Endocrine disruption for human health : The substance/mixture has no endocrine disrupting properties.

Other information 11.2.2.

No additional information available

SECTION 12: Ecological information

Toxicity 12.1.

 Not classified Acute aquatic toxicity 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

Persistence and degradability

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

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

Results of PBT and vPvB assessment

Not fulfilling Persistent, Bioaccumulative and Toxic (PBT), very Persistent and very Bioaccumulative (vPvB) criteria.

Endocrine disrupting properties

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

Other adverse effects

No additional information available

SECTION 13: Disposal considerations

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.

: Empty the packaging completely prior to disposal. When totally empty, containers are Waste disposal recommendations

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

14.2. UN proper shipping name

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 (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,

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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)

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 (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 for user

Overland transport

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

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Portable tank and bulk container instructions : T7

(ADR)

Portable tank and bulk container special : TP1, TP28

provisions (ADR)

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)

Transport by sea

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

Air transport

: E1 PCA Excepted quantities (IATA) PCA Limited quantities (IATA) : Y841 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. Safety, health and environmental regulations/legislation specific for the substance or mixture

15.1.1. EU-Regulations

REACH Annex XIV (Authorisation List)

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

REACH Candidate List (SVHC)

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

PIC Regulation (Prior Informed Consent)

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

POP Regulation (Persistent Organic Pollutants)

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

Ozone Regulation (2024/590)

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

Explosives Precursors Regulation (2019/1148)

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

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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:

Appleviations and acid	onyma.
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:

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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 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.

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