

Safety data sheet

according to Regulation (EC) No. 1907/2006 (REACH) and
Regulation (EU) No. 2015/830

LIQUID METAL RESIN

Article number #11030_Resin / revised: 29.05.2019 / Page 01 of 09

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

1.1. Product identifier

Trade name: Liquid metal, resin

This safety data sheet applies to the following products:

#11040 Liquid metal, 50 ml, resin

#11030 Liquid metal, 25 ml, resin

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

General use: Epoxy resin

1.3. Details of the supplier of the safety data sheet

Company name: Baumann Dental GmbH

Street/P.O. Box: Frankenstraße 25

Postal code, Place: D-75210 Kelttern

Internet: www.baumann-dental.de

@-mail: info@baumann-dental.de

Telephone: +49 (0) 7236-933690

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Department responsible for information: telephone: +49(0)7236-933690, e-mail: info@baumann-dental.de

1.4. Emergency telephone number: +49 (0) 551 - 1 92 40

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification according to EC Regulation 1272/2008 (CLP)

Skin Irrit. 2; H315 Causes skin irritation.

Eye Irrit. 2; H319 Causes serious eye irritation.

Skin Sens. 1; H317 May cause an allergic skin reaction.

Aquatic Chronic 2; H411 Toxic to aquatic life with long lasting effects.

2.2 Label elements

Labelling (CLP)



Signal word: Attention

Hazard statements:

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.

Safety data sheet

according to Regulation (EC) No. 1907/2006 (REACH) and
Regulation (EU) No. 2015/830

LIQUID METAL RESIN

Article number #11030_Resin / revised: 29.05.2019 / Page 02 of 09

Precautionary statements:

P102 Keep out of reach of children.
P261 Avoid breathing vapours.
P273 Avoid release to the environment.
P280 Wear protective gloves/protective clothing/eye protection/face protection.
P302+P352 IF ON SKIN: Wash with plenty of water/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.
P308+P313 IF exposed or concerned: Get medical advice/ attention.
P501 Dispose of contents/container to hazardous waste disposal.

Special labelling

EUH205 Contains epoxy constituents. May produce an allergic reaction.
Contains reaction product: bisphenol-A-epichlorohydrin resins with an average molecular weight ≤ 700

2.3 Other hazards

The vapours irritate the mucous membranes and the respiratory tract.
Results of PBT and vPvB assessment: no data available

SECTION 3: Composition / information on ingredients

3.1 Substances: not applicable

3.2 Mixtures: Hazardous ingredients:

Ingredient	Designation	Content	Classification
EC No. 500-033-5	Reaction product:	80 - 99 %	Skin Irrit. 2; H315.
CAS 25068-38-6	Bisphenol-A-epichlorohydrin resins with an average molecular weight ≤ 700		Eye Irrit. 2; H319. Skin Sens. 1; H317. Aquatic Chronic 2; H411.

Wording of the H and EUH hazard statements see Section 16.

SECTION 4: First aid measures

4.1 Description of first aid measures

If inhaled: Provide for fresh air. Consult physician.
In case of skin contact: Immediately wash with plenty of water and soap after contact with the skin.
Take off contaminated clothing and wash before wearing again.
Seek medical advice in case of skin reactions.
In case of eye contact: Immediately rinse with running water for 10 to 15 minutes with the eyelid open.
Remove contact lenses, if present and easy to do.
Continue rinsing. Then consult an ophthalmologist.
If swallowed: Rinse mouth with water. Do not induce vomiting. Consult physician.
Never administer anything to an unconscious person through the mouth.

Safety data sheet

according to Regulation (EC) No. 1907/2006 (REACH) and
Regulation (EU) No. 2015/830

LIQUID METAL RESIN

Article number #11030_Resin / revised: 29.05.2019 / Page 03 of 09

4.2 Most important symptoms and effects, both acute and delayed

May cause an allergic skin reaction. Causes skin irritation.

Causes severe eye irritation.

4.3 Indication of any immediate medical attention and special treatment needed

Symptomatic treatment.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media: water spray, foam, dry powder, carbon dioxide

Extinguishing media unsuitable for safety reasons: full water jet

5.2 Special hazards arising from the substance or mixture

In the event of fire, dangerous fumes and vapours may be generated.

Carbon monoxide and carbon dioxide may be generated in the event of fire.

5.3 Advice for firefighters

Special protective equipment for firefighting:

Wear self-contained breathing apparatus and chemical protection suit.

Additional notes:

Cool endangered containers with water spray jet. Prevent penetration of extinguishing water into surface waters or groundwater.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Ensure adequate ventilation. Avoid contact with substance. Avoid breathing vapours.

Use self-contained breathing apparatus. Wear suitable protective equipment.

Take off contaminated clothing and wash before wearing again.

Keep unprotected persons away.

6.2 Environmental precautions

Prevent penetration into soil, waters or the sewage system.

In case of penetration into the sewage system, waters or soil, inform the competent authorities.

6.3 Methods and material for containment and cleaning up

Allow spilled product to solidify if safely possible. Collect mechanically and dispose of.

Observe applicable regulations. Clean subsequently with cleaning agents, do not use solvents.

6.4 Reference to other sections

See also Sections 8 and 13.

Safety data sheet

according to Regulation (EC) No. 1907/2006 (REACH) and
Regulation (EU) No. 2015/830

LIQUID METAL RESIN

Article number #11030_Resin / revised: 29.05.2019 / Page 04 of 09

SECTION 7: Handling and Storage

7.1. Precautions for safe handling

Notes on safe handling:

Ensure good ventilation of the warehouse and workplace. Avoid contact with substance.

Do not eat, drink or smoke when using this product. Wear suitable protective equipment. Take off contaminated clothing and wash before wearing again.

Notes on fire and explosion protection:

Keep away from heat sources (e.g. hot surfaces), sparks and open flames.

7.2. Conditions for safe storage, including any incompatibilities

Requirements for storage rooms and containers:

Protect from heat, direct sunlight and cold. Store containers tightly closed and dry.

Storage temperature: 10 °C to 20 °C. Smoking prohibited. Access to the warehouse only for competent persons.

Storage class: 10 = Flammable liquids, unless LGK 3

7.3. Specific end use(s)

There is no information available.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Additional notes: does not contain substances with occupational exposure limits.

8.2. Exposure controls

Ensure adequate ventilation.

Personal protective equipment

Limiting and monitoring exposure at the workplace

Breathing protection: Breathing protection is required in case of vapours.
Use filter type NPF 70 according to EN 14387.

Hand protection: Protective gloves according to EN 374.

Glove material: Nitrile rubber - thickness: 0.11 mm.

Breakthrough time (maximum wearing time): >480 min.

The specifications of the manufacturer of the protective gloves regarding permeabilities and breakthrough times must be observed.

Eye protection: Tightly fitting safety glasses according to EN 166.

Body protection: Wear suitable protective clothing at work.

Chemical-resistant safety shoes

Protection and hygiene measures:

Take off contaminated clothing and wash before wearing again. Avoid contact with substance. Wash hands

prior to breaks and at the end of work. Do not inhale vapour/aerosol. Avoid contact with eyes and skin.

Do not eat, drink or smoke during work. Equip the workplace with an eye shower and a body shower (emergency shower).

Safety data sheet

according to Regulation (EC) No. 1907/2006 (REACH) and
Regulation (EU) No. 2015/830

LIQUID METAL RESIN

Article number #11030_Resin / revised: 29.05.2019 / Page 05 of 09

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Appearance: form:	thixotropic
Colour:	white
Odour:	weak
Odour threshold:	No data available
pH-value:	No data available
Melting point/freezing point:	No data available
Initial boiling point and boiling range:	No data available
Flash point/flash point range:	No data available
Evaporation rate:	No data available
Flammability:	No data available
Explosive limits:	No data available
Vapour pressure:	No data available
Vapour density:	No data available
Density:	No data available
Solubility:	No data available
Distribution coefficient n-octanol/water:	No data available
Auto-ignition temperature:	No data available
Decomposition temperature:	No data available
Viscosity, dynamic:Viskosität:	thixotropic
Explosive properties:	No data available
Oxidising properties:	No data available

9.2. Other information

Further information: no data available

SECTION 10: Stability and Reactivity

10.1. Reactivity

see 10.3

10.2. Chemical stability

Stable under specified storage conditions.

10.3. Possibility of hazardous reactions

No hazardous reactions occur if handled and stored as directed.

10.4. Conditions to avoid

Protect from sunlight and temperatures above 95 °C.

10.5. Incompatible materials

Strong oxidising agents, amines, mercaptans, strong Lewis acids, sodium hydroxide.

10.6. Hazardous decomposition products

no data available

Thermal decomposition: no data available

Safety data sheet

according to Regulation (EC) No. 1907/2006 (REACH) and
Regulation (EU) No. 2015/830

LIQUID METAL RESIN

Article number #11030_Resin / revised: 29.05.2019 / Page 06 of 09

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity:

LD50 rats, oral: > 2000 mg/kg

LD50 rabbits, dermal: > 2000 mg/kg

Toxicological effects:

The statements are derived from the properties of the individual constituents.

No toxicological data are available for the product as such.

Acute toxicity (oral): based on the available data, the classification criteria are not met.

Acute toxicity (dermal): based on the available data, the classification criteria are not met.

Acute toxicity (inhalative): missing data.

Etching/irritant effect on the skin: skin irritation. 2; H315 = Causes skin irritation.

Eye damage/ irritation: Eye Irrit. 2; H319 = Causes serious eye irritation.

Sensitisation of the respiratory tract: missing data.

Sensitisation of the skin: Skin Sens. 1; H317 = May cause an allergic skin reaction.

Germ cell mutagenicity/genotoxicity: missing data.

Carcinogenicity: missing data.

Reproductive toxicity: missing data.

Effect on and via lactation: missing data.

Specific target organ toxicity (single exposure): missing data.

Specific target organ toxicity (repeated exposure): missing data.

Aspiration hazard: missing data.

SECTION 12: Ecological information

12.1 Toxicity

Aquatic toxicity: Toxic to aquatic life with long lasting effects.

Algae toxicity:EC50:: 220 mg/L/96h

Daphnia toxicity:EC50: 2.8 mg/L/48h

Fish toxicity:LC50: 3.6 mg/L/96h

Water hazard class: 2 = hazardous to water

12.2. Persistence and degradability

Other notes: the product is not easily biodegradable.

12.3 Bioaccumulative potential

Bioconcentration factor (BCF):

Bioaccumulation is possible.

12.4 Mobility in soil

No data available

12.5 Results of PBT and vPvB assessment

No data available

12.6 Other adverse effects

General notes: prevent penetration into soil, waters or the sewage system.

Safety data sheet

according to Regulation (EC) No. 1907/2006 (REACH) and
Regulation (EU) No. 2015/830

LIQUID METAL RESIN

Article number #11030_Resin / revised: 29.05.2019 / Page 07 of 09

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Product

Waste code number: 08 04 09* = adhesives and sealants waste containing organic solvents or other hazardous substances MFSU = Manufacture, Formulation, Supply and Use

* = Disposal must be verified.

Recommendation: disposal in accordance with official regulations.

Packaging

Recommendation: disposal in accordance with official regulations. Uncontaminated and completely emptied packaging can be recycled.

SECTION 14: Transport Information

14.1 UN number

UN 3082

14.2 UN proper shipping name

ADR/RID, ADN: UN 3082, UMWELTGEFÄHRDENDER STOFF, FLÜSSIG, N.A.G.

(Reaktionsprodukt mit Bisphenol-A-Epichlorhydrinharz (Molekulargewicht <=700))

IMDG, IATA-DGR: UN 3082, ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.

(Reaction product with Bisphenol-A-(epichlorhydrin) epoxy resin (molecular weight <=700))

14.3 Transport hazard classes

ADR/RID, ADN: Class 9, Code: M6

IMDG: Class 9, Subrisk-

IATA-DGR: Class 9



14.4 Packing group

III

14.5 Environmental hazards

Marine pollutant - IMDG: yes

Marine pollutant - ADN: yes

14.6 Special precautions for user

Surface Transport (ADR/RID)

Warning sign: ADR/RID: hazard number 90, UN number UN 3082

Hazard label: 9

Special Provisions: 274 335 375 601

Limited quantity: 5 L

EQ: E1

Packaging -Instructions: P001 IBC03 LP01 R001

Packaging - Special Provisions: PP1

Special Provisions for combined packaging: MP19

Portable tanks - instructions: T4

Portable tanks -Special Provisions: TP1 TP29

Tank coding: LGBV

Tunnel restriction code: -

Safety data sheet

according to Regulation (EC) No. 1907/2006 (REACH) and
Regulation (EU) No. 2015/830

LIQUID METAL RESIN

Article number #11030_Resin / revised: 29.05.2019 / Page 08 of 09

Inland waterway transport (ADN)

Hazard label: 9
Special Provisions: 274 335 375 601
Limited quantity: 5 L
EQ: E1
Transport permitted: T
Equipment required: PP

Transport by sea (IMDG)

EmS: F-A, S-F
Special Provisions: 274, 335, 969
Limited quantity: 5 L
Exempted quantities: E1
Packaging -Instructions: P001, LP01
Packaging - Regulations: PP1
IBC - Instructions: IBC03
IBC - Regulations: -
Tank instructions - IMO: -
Tank instructions - UN: T4
Tank instructions - Regulations: TP2, TP29
Stowing and handling: Category A.
Properties: and notes:
Separation group: none

Air transport (IATA)

Hazard label: Miscellaneous
Exempted quantity: coding: E1
Passenger and cargo aircraft: limited quantity:
Pack.Instr. Y964 - Max. Net Qty/Pkg. 30 kg G
Passenger and cargo aircraft: Pack.Instr. 964 - Max. Net Qty/Pkg. 450 L
Only cargo aircraft: Pack.Instr. 964 - Max. Net Qty/Pkg. 450 L
Special Provisions: A97 A158 A197
Emergency Response Guide-Code (ERG): 9L

14.7 Transport in bulk according to Annex II of MARPOL and the IBC Code

No data available

SECTION 15: Regulatory information

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

National regulations - Germany

Storage class: 10 = Flammable liquids, unless LGK 3
Water hazard class: 2 = hazardous to water
Notes on employment restrictions: observe employment restrictions for adolescents.

National regulations - EC Member States

Labelling of the packaging for a content <= 125mL



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Safety data sheet

according to Regulation (EC) No. 1907/2006 (REACH) and
Regulation (EU) No. 2015/830

LIQUID METAL RESIN

Article number #11030_Resin / revised: 29.05.2019 / Page 09 of 09

Hazard statements:

H317 May cause an allergic skin reaction.

Precautionary statements:

P102 Keep out of reach of children.

P261 Avoid breathing vapours.

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

P302+P352 IF ON SKIN: Wash with plenty of water/soap.

P308+P313 IF exposed or concerned: Get medical advice/ attention.

15.2 Chemical Safety Assessment

A chemical safety assessment is not necessary for this mixture.

SECTION 16: Other information

Further information

Wording of the H phrases under Sections 2 and 3:

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.

EUH205 = Contains epoxy constituents. May produce an allergic reaction.

Literature: BG RCI:

- leaflet M004 'Irritant substances/corrosive substances'

- leaflet M050 'Handling of hazardous substances'

- leaflet M053 'General Protective Measures for the handling of hazardous substances'

Date of first issue: 1.3.2017

Department issuing the data sheet

Contact person: see Section 1: Department providing the information

For abbreviations and acronyms see ECHA: Guidelines on Information Requirements and Chemical Safety Assessment, Chapter R.20 (List of Terms and Abbreviations). The information in this data sheet has been compiled to the best of our knowledge and corresponds to the state of knowledge at the revision date. However, they do not guarantee the compliance with certain characteristics in the sense of a legally binding nature.

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