

## Safety data sheet

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

### LIQUID METAL HARDENER

Article number #11030\_Hardener / Page 01 of 07

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

##### 1.1. Product identifier

Trade name: adjustment adhesive / liquid metal, hardener

This safety data sheet applies to the following products:

#11040 Liquid metal, 50 ml, hardener

#11030 Liquid metal, 25 ml, hardener

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

General use: hardener

##### 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.de

@-mail: info@baumann-dental.de

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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)7236-933 69 0

#### 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.

##### 2.2 Label elements

Labelling (CLP)



Signal word: Attention

##### Hazard statements:

H315: Causes skin irritation.

H319: Causes serious eye irritation.

##### Precautionary statements:

P102 Keep out of reach of children.

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

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes.

Remove contact lenses, if present and easy to do. Continue rinsing.

P337+P313 If eye irritation persists: Get medical advice/attention.

P362 Take off contaminated clothing.

##### Special labelling

Information text for labels: contains bis [(dimethylamino)methyl]phenol and 2,4,6-tri-(dimethylaminomethyl) phenol.

##### 2.3 Other hazards

Particular risk of slipping due to leaked/spilled product.

Results of PBT and vPvB assessment: no data available

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#### SECTION 3: Composition / information on ingredients

**3.1 Substances:** not applicable

**3.2 Mixtures:** Hazardous ingredients:

Ingredient	Designation	Content	Classification
EC No. 202-013-9	2,4,6-tri-	< 10 %	Acute Tox. 4; H302. Skin Irrit. 2; H315.
CAS 90-72-2	(dimethylaminomethyl)phenol		Eye Irrit. 2; H319.
EC No. 275-162-0	Bis[(dimethylamino)methyl]	< 1.5 %	Skin Corr. 1B; H314.
CAS 71074-89-0	phenol		

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

#### SECTION 4: First aid measures 4.1 Description of first aid measures

General notes::	First-aid workers: pay attention to self-protection!
If inhaled:	Provide for fresh air. Consult physician.
In case of skin contact:	Remove contaminated clothing immediately and only reuse after thorough cleaning. Immediately wash with plenty of water and soap after contact with the skin. Then apply skin cream. Consult physician immediately.
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. Immediately consult an ophthalmologist.
If swallowed:	Rinse mouth with water. Drink water repeatedly. Do not induce vomiting. Never administer anything to an unconscious person through the mouth. Consult physician immediately.

#### 4.2 Most important symptoms and effects, both acute and delayed

Causes skin irritation. Causes serious 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.  
Nitrogen oxides (NO<sub>x</sub>), sulphur oxides, ammonia, 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: prevent penetration of extinguishing water into surface waters or groundwater.

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#### SECTION 6: Accidental release measures

##### 6.1. Personal precautions, protective equipment and emergency procedures

Ensure adequate ventilation. Avoid contact with substance. Avoid creating dust. Do not inhale dust. Avoid breathing vapours. Use suitable breathing protection. 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.

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

Contain larger quantities and pump into containers. Collect residual quantities mechanically and dispose of them in accordance with regulations. Dispose of according to regulations.

Rinse small amounts with water. Dispose of waste water according to regulations.

##### 6.4. Reference to other sections

See also Sections 8 and 13.

#### 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. Wear suitable protective equipment. Take off contaminated clothing and wash before wearing again.

##### 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. Access to the warehouse only for competent persons. Storage Class: 11 = Flammable solids

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

There is no information available.

#### SECTION 8: Exposure controls/personal protection

##### 8.1. Control parameters

Occupational exposure limits:

Ingredient	Designation	Type	Limit value
7664-41-7	7664-41-7 Ammonia, anhydrous	Germany: TRGS 900 short-term	28 mg/m <sup>3</sup> ; 40 ppm
		Germany: TRGS 900 long-term	14 mg/m <sup>3</sup> ; 20 ppm
		Europe: IOELV: STEL	36 mg/m <sup>3</sup> ; 50 ppm
		Europe: IOELV: TWA	14 mg/m <sup>3</sup> ; 20 ppm

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#### 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 A2 according to EN 14387. If the occupational exposure limits (EU OEL) are exceeded, a breathing apparatus must be worn. Use filter type K according to EN 14387.
Hand protection:	Protective gloves according to EN 374. Glove material: PVC 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.
Protection and hygiene measures:	Avoid contact with substance. Change contaminated clothing. Wash hands prior to breaks and at the end of work. Eye wash facilities must be available.

### SECTION 9: Physical and chemical properties

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

Appearance: form:	pasty	
Colour:	white	
Odour:	characteristic	
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, kinematic:	No data available	
Explosive properties:	No data available	
Oxidising properties:	No data available	

#### 9.2 Other information

Further information: no data available

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#### 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 heat, direct sunlight and cold.

##### 10.5 Incompatible materials

No data available

##### 10.6 Hazardous decomposition products

Nitrogen oxides (NO<sub>x</sub>), sulphur oxides, hydrogen sulphide, ammonia, carbon monoxide and carbon dioxide.  
Thermal decomposition: no data available

#### SECTION 11: Toxicological information

##### 11.1. Information on toxicological effects

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): missing data.

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: missing data.

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: no information on the product available.

Water hazard class: 1 = slightly hazardous to water

##### 12.2. Persistence and degradability

Other notes: the product is not biodegradable.

##### 12.3. Bioaccumulative potential

Distribution coefficient n-octanol/water: no data available

##### 12.4. Mobility in soil

No data available

##### 12.5. Results of PBT and vPvB assessment

No data available

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#### SECTION 13: Disposal considerations

##### 13.1. Waste treatment methods

###### Product

Waste code number: = adhesives and sealants waste containing organic solvents or other  
08 04 09\* hazardous substances

Recommendation: MFSU= manufacture, formulation, supply and use \* = Disposal must be verified.  
disposal in accordance with official regulations. Can be disposed of together  
with household waste in a landfill or incineration plant.

###### Packaging

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

#### SECTION 14: Transport Information

##### 14.1. UN number

not applicable

##### 14.2. UN proper shipping name

Not restricted

##### 14.3. Transport hazard classes

not applicable

##### 14.4. Packing group

not applicable

##### 14.5. Environmental hazards

Marine pollutant - IMDG: no

##### 14.6. Special precautions for user

Protect from heat, direct sunlight and cold.

##### 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: 11 = Flammable solids

Water hazard class: 1 = slightly 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



Signal word: Attention /hazard statements: not applicable

Precautionary statement(s): P102 Keep out of reach of children.

##### 15.2 Chemical Safety Assessment

A chemical safety assessment is not necessary for this mixture.

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#### SECTION 16: Other information

##### Further information

Wording of the H phrases under Sections 2 and 3:

H302 = Harmful if swallowed.

H314 = Causes severe skin burns and eye damage.

H315 = Causes skin irritation.

H319: = Causes serious eye irritation.

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: 01.03.2017

##### 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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