

Printing date: 20.12.2022

Version number 2 (replaces version 1)

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	iny/undertaking
1.1 Product identifier	
Trade name: Galvanobonder - component I Galvanobonder - Komponente I	
Article number: 77953014 = SET: 5 ml Galvanobonder component I + 4,8 g Goldbonder componente I 77953052 = SET: 1 ml Galvanobonder component I + 1,0 g Goldbonder componente I	
CAS Number: 57-55-6 EC number: 200-338-0	
UFI: KXK8-R0QS-W00E-DN1D	
1.2 Relevant identified uses of the substance or mixture and uses advised against Not approved for private consumers.	
Application of the substance / the mixture Auxiliary for manufacture of dental prothes	sis
1.3 Details of the supplier of the safety data sheet Manufacturer/Supplier:	
Heimerle + Meule GmbH Dennigstrasse 16 D-75179 Pforzheim	
Telefon +49 (0) 7231 940-0 Telefax +49 (0) 7231 940-2199 www.heimerle-meule.com	
Further information obtainable from:	
Abteilung BASU - Bau/Arbeitssicherheit/Umwelt Department BASU - Construction / Occupational Safety / Environment sds@heimerle-meule.com	
IATA - 24h Emergency Contact - IATA - 24h Emergency Contact - (Dangerous goods emergency number) +49 172 739 6970	
1.4 Emergency telephone number:	
DEUTSCHLAND - GERMANY:	
Vergiftungs-Informations-Zentrale Freiburg, ++49 761 19240 (24 h) (Poisoning Information Center) GREAT BRITAIN:	
National Poisons Information Service +44 121 507 4123 Members of the public seeking specific information on poisons should contact: In England and Wales: NHS 111 - dial 111 - In Scotland: NHS 24 - dial 111	
<u>IRELAND</u> +353 1 809 2166 (7 Days 8 am -10 pm)	
Healthcare Professionals: +353 1 809 2566 ITALY:	
Istituto Superiore di Sanità (ISS) +3906499906140 Centro Antiveleni	
Bergamo: +39 800 883300 Firenze +39 055 794 7819	
Milano: +39 055 794 7819	
Roma +39 06 68593726 Roma +39 06 49978000	
Roma +39 06 3954343	
KROATIA - REPUBLIKA HRVATSKA:	(Contd. on pag



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(+385) 01 2348 342
<u>ESTLAND - ESTONIA:</u> Tervisemeti Mürgistusteabekeskuse
National (24/7): 16662
(+372) 7943 794
<u>LETTLAND - LATVIA:</u> Valsts Toksikoloģijas centrs, Saindēšanās un zāļu informācijas centrs, (24h) 112
(24h) +371 67042473
<u>LITAUEN - LIETUVOS RESPUBLIKA:</u> Poison Information Bureau (24/7), Tel.: +8 5 236 20 52
Apsinuodijimų informacijos biuras

SECTION 2: Hazards identification

• 2.1 Classification of the substance or mixture • Classification according to Regulation (EC) No 1272/2008



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. · 2.2 Label elements · Labelling according to Regulation (EC) No 1272/2008 The substance is classified and labelled according to the GB CLP regulation. · Hazard pictograms GHS07 · Signal word Warning · Hazard-determining components of labelling: tin dichloride · Hazard statements H315 Causes skin irritation. H319 Causes serious eye irritation. H317 May cause an allergic skin reaction. · Precautionary statements Avoid breathing dust/fume/gas/mist/vapours/spray. P261 P272 Contaminated work clothing should not be allowed out of the workplace. P280 *Wear protective gloves / 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. P333+P313 If skin irritation or rash occurs: Get medical advice/attention. (Contd. on page 3) GB



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P501

(Contd. of page 2) Dispose of contents/container in accordance with local/regional/national/international regulations.

· 2.3 Other hazards

· Results of PBT and vPvB assessment

· PBT: Not applicable.

• **vPvB:** Not applicable.

SECTION 3: Composition/information on ingredients

· 3.1 Substances

· CAS No. Description

CAS: 57-55-6 Propylene glycol; propane-1,2-diol; 1,2-Dihydroxypropane; 1,2-Propanediol; 2-Hydroxypropanol; Methyl glycol; Methylethyl glycol

• Identification number(s) • EC number: 200-338-0

· Dangerous components / Information on ingredients:

Dungerous components / Information on ingreatents.			
		1%	
EINECS: 231-868-0	🗞 STOT RE 2, H373		
RTECS: XP 8700000	Net. Corr.1, H290; Skin Corr. 1B, H314; Eye Dam. 1, H318		
	Acute Tox. 4, H302; Acute Tox. 4, H332; Skin Sens. 1, H317; STOT SE 3,		
	H335		
	Aquatic Chronic 3, H412		
	CAS: 7772-99-8 EINECS: 231-868-0 RTECS: XP 8700000	CAS: 7772-99-8 tin dichloride EINECS: 231-868-0 STOT RE 2, H373 RTECS: XP 8700000 Met. Corr.1, H290; Skin Corr. 1B, H314; Eye Dam. 1, H318 Acute Tox. 4, H302; Acute Tox. 4, H332; Skin Sens. 1, H317; STOT SE 3,	

SECTION 4: First aid measures

• 4.1 Description of first aid measures

• General information:

Immediately remove any clothing soiled by the product.

Personal protection for the First Aider.

Take affected persons out of danger area and lay down.

Involve doctor immediately after a accident or unwell

• After inhalation:

Supply fresh air and to be sure call for a doctor.

In case of unconsciousness place patient stably in side position for transportation.

· After skin contact:

Immediately wash with water and soap and rinse thoroughly.

Immediately rinse with water.

If skin irritation continues, consult a doctor.

• After eye contact:

Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.

- After swallowing:
- Drink plenty of water and provide fresh air. Call for a doctor immediately.

A person vomiting while laying on their back should be turned onto their side.

Rinse out mouth and then drink plenty of water.

• 4.2 Most important symptoms and effects, both acute and delayed No further relevant information available.

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

No further relevant information available.

SECTION 5: Firefighting measures

· 5.1 Extinguishing media

• Suitable extinguishing agents: Use fire extinguishing methods suitable to surrounding conditions.



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- For safety reasons unsuitable extinguishing agents: Water with full jet
 5.2 Special hazards arising from the substance or mixture No further relevant information available.
 5.3 Advice for firefighters
- Protective equipment:



Wear self-contained respiratory protective device.

Beware: Filter masks provide protection for a short period of time only. They should only be used in exceptional cases, that is if a small amount of the substance has spilled out or in order to fight spillages and fire

• Additional information

Dispose of fire debris and contaminated fire fighting water in accordance with official regulations. Collect contaminated fire fighting water separately. It must not enter the sewage system.

SECTION 6: Accidental release measures

• 6.1 Personal precautions, protective equipment and emergency procedures Wear protective equipment. Keep unprotected persons away. Use respiratory protective device against the effects of fumes/dust/aerosol.

Only handle and refill product in closed systems.

6.2 Environmental precautions: Dilute with plenty of water.

Do not allow to enter sewers/ surface or ground water.

- 6.3 Methods and material for containment and cleaning up: Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust). Dispose contaminated material as waste according to item 13. Ensure adequate ventilation.
- 6.4 Reference to other sections See Section 7 for information on safe handling. See Section 8 for information on personal protection equipment. See Section 13 for disposal information.

SECTION 7: Handling and storage

· 7.1 Precautions for safe handling

Keep receptacles tightly sealed.

Ensure good ventilation/exhaustion at the workplace.

he usual precautionary measures are to be adhered to when handling chemicals.

Prevent formation of aerosols.

Wear suitable respiratory protective device when decanting larger quantities without extractor facilities. Do not dry clean dust covered objects and floors. Wash thoroughly with plenty of water.

- Information about fire and explosion protection: No special measures required.
- · 7.2 Conditions for safe storage, including any incompatibilities
- · Storage:
- Requirements to be met by storerooms and receptacles:

Observe official regulations on storing packagings.

Observe official regulations on storing packagings.

Prevent any seepage into the ground.

- · Information about storage in one common storage facility: Store away from foodstuffs.
- Further information about storage conditions: Keep container tightly sealed.

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• Storage class: 10

• 7.3 Specific end use(s) No further relevant information available.

SECTION 8: Exposure controls/personal protection

Ingredients with limit values that require monitoring at the workplace: CAS: 57-55-6 Propylene glycol		
WEL (Great Britain)	Long-term value: 474* 10** mg/m ³ , 150* ppm	
WEL (Oreal Dritain)	*total vapour and particulates **particulates	
MAK (Germany)	als Dampf und Aerosol;vgl.Abschn.IIb und Xc	
CAS: 7772-99-8 tin dichlo		
WEL (Great Britain)	Short-term value: 4 mg/m ³ Long-term value: 2 mg/m ³ as Sn	
IOELV (European Union)	Long-term value: 2 mg/m ³ as Sn	
AGW (Germany)	Long-term value: 8 E mg/m³ EU, AGS, 10	
Regulatory information		
WEL (Great Britain): EH4		
MAK (Germany): MAK- ur		
IOELV (European Union):		
AGW (Germany): TRGS 90		
Aaaitional information: 1	he lists valid during the making were used as basis.	
8.2 Exposure controls		
	controls No further data; see item 7.	
Individual protection mea	sures, such as personal protective equipment	
General protective and hy		
	easures are to be adhered to when handling chemicals.	
Keep away from foodstuffs		
	iled and contaminated clothing	
Wash hands before breaks		
Do not inhale gases / fume		
Avoid contact with the eyes		
According to EC Directive	89/686/EEC	
Respiratory protection:		
	r low pollution use respiratory filter device. In case of intensive or longer exposi-	
use self-contained respirat		
	ovide protection for a short period of time only. They should only be used if a small amount of the substance has spilled out or in order to fight spillages a	
according EN 14387		
according to EN 143		
Hand protection		
dlb		
1 ¹¹ ? Protective	gloves	
according to EN 374		

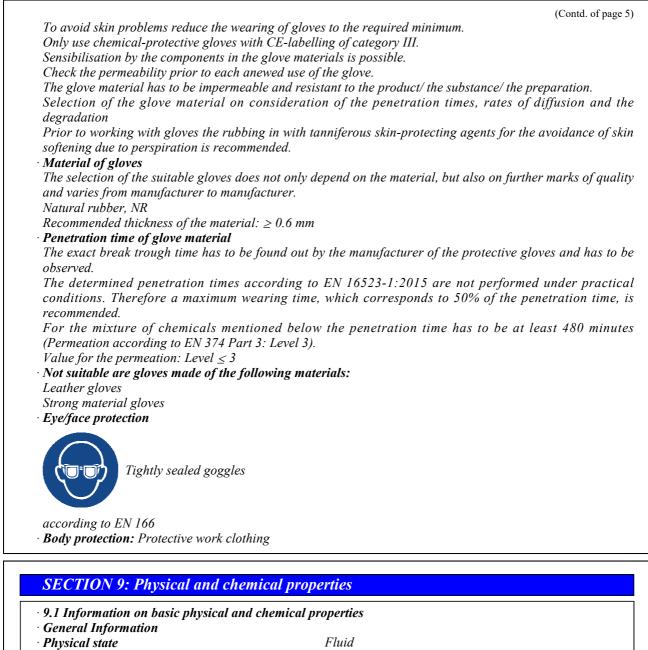


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Colourless · Colour: · Odour: Nearly odourless · Odour threshold: Not determined. • *Melting point/freezing point:* -68°C (-90.4°F) · Boiling point or initial boiling point and boiling 185°C (365°F) range · Flammability Not applicable. · Lower and upper explosion limit 2.6 Vol % (CAS: 57-55-6 Propylene glycol) · Lower: 12.6 Vol % (CAS: 57-55-6 Propylene glycol) · Upper: >100°C (>212°F) · Flash point: 371°C (699.8°F) · Ignition temperature: · Decomposition temperature: Not determined.

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рН	Mixture is non-soluble (in water).
Viscosity:	
Kinematic viscosity	Not determined.
Dynamic at 20°C (68°F):	46 mPas
Solubility	
water:	Fully miscible.
Partition coefficient n-octanol/water (log value)	Not determined.
Vapour pressure at 20°C (68°F):	0.11 hPa (0.1 mm Hg)
Density and/or relative density	
Density at 20°C (68°F):	1.04 g/cm ³ (8.68 lbs/gal)
Relative density	Not determined.
Vapour density	Not determined.
	0.00.07
9.2 Other information	0.00 %
Appearance:	
Form:	Fluid
Important information on protection of health an	nd state of the st
environment, and on safety.	
Auto-ignition temperature:	Not determined.
Explosive properties:	Product does not present an explosion hazard.
Molecular weight	76.1 g/mol
Change in condition	
Evaporation rate	Not determined.
Information with regard to physical hazard classe	<i>es</i>
Explosives	Void
Flammable gases	Void
Aerosols	Void
Oxidising gases	Void
Gases under pressure	Void
Flammable liquids	Void
Flammable solids	Void
Self-reactive substances and mixtures	Void
Pyrophoric liquids	Void
Pyrophoric solids	Void
Self-heating substances and mixtures	Void
Substances and mixtures, which emit flammable	
gases in contact with water	Void
Oxidising liquids	Void
Oxidising solids	Void
Organic peroxides	Void
Corrosive to metals	Void
Desensitised explosives	Void

SECTION 10: Stability and reactivity

· 10.1 Reactivity No further relevant information available.

· 10.2 Chemical stability

- Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.
- · 10.3 Possibility of hazardous reactions Reacts with acids, alkalis and oxidising agents.
- 10.4 Conditions to avoid No further relevant information available.
- 10.5 Incompatible materials: No further relevant information available.

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• 10.6 Hazardous decomposition products: No dangerous decomposition products known.

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SECTION 11: Toxicological information

• 11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008 • Acute toxicity

· LD/LC50 values relevant for classification:

ATE (Acute Toxicity Estimates)

Oral LD50 70,000 mg/kg (rat)

Inhalative LC50/4 h 150 mg/l

• Skin corrosion/irritation Causes skin irritation.

· Serious eye damage/irritation Causes serious eye irritation.

· Respiratory or skin sensitisation May cause an allergic skin reaction.

• 11.2 Information on other hazards

· Endocrine disrupting properties

None of the ingredients is listed.

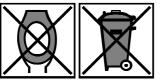
SECTION 12: Ecological information

- · 12.1 Toxicity
- · Aquatic toxicity: No further relevant information available.
- · 12.2 Persistence and degradability No further relevant information available.
- 12.3 Bioaccumulative potential No further relevant information available.
- · 12.4 Mobility in soil No further relevant information available.
- · 12.5 Results of PBT and vPvB assessment Not applicable.
- · PBT: Not applicable.
- · vPvB: Not applicable.
- 12.6 Endocrine disrupting properties
- The product does not contain substances with endocrine disrupting properties.
- · 12.7 Other adverse effects
- · Additional ecological information:
- · General notes:

Do not allow product to reach ground water, water course or sewage system. Danger to drinking water if even small quantities leak into the ground.

SECTION 13: Disposal considerations

- · 13.1 Waste treatment methods
- · Recommendation



Must not be disposed together with household garbage. Do not allow product to reach sewage system.

Contact manufacturer for recycling information.

Waste disposal key:

The allocation of waste identity numbers/waste descriptions must be carried out according to the EEC, specific to the industry and process.

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· Uncleaned packaging:

· Recommendation:

Disposal must be made according to official regulations.

Packaging which is uncleaned or soiled with product remains is to be treated like the product itself Packaging free of product remains is to be supplied refuse for recycling. Only if no adequate collecting system is available, they may be disposed of through the domestic rubbish

• Recommended cleansing agents: Water, if necessary together with cleansing agents.

SECTION 14: Transport information	
· 14.1 UN number or ID number · ADR, IMDG, IATA	Void
· 14.2 UN proper shipping name · ADR, IMDG, IATA	Void
· 14.3 Transport hazard class(es)	
· ADR, ADN, IMDG, IATA · Class	Void
· 14.4 Packing group · ADR, IMDG, IATA	Void
· 14.5 Environmental hazards:	Not applicable.
· 14.6 Special precautions for user	Not applicable.
· 14.7 Maritime transport in bulk according to IM instruments	O Not applicable.
· Transport/Additional information:	
· IATA · Remarks:	24h emergency contact -
	(Dangerous goods emergency number)
	+49 172 739 6970
· UN "Model Regulation":	Void

SECTION 15: Regulatory information

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

COUNCIL DIRECTIVE 98/24/EC of 7 April 1998 on the protection of the health and safety of workers from the risks related to chemical agents at work (fourteenth individual Directive within the meaning of Article 16(1) of Directive 89/391/EEC)

DIRECTIVE 2012/18/EU OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 4 July 2012 on the control of major-accident hazards involving dangerous substances, amending and subsequently repealing Council Directive 96/82/EC

GADSL - Global Automotive Declarable Substance List

None of the ingredients is listed.

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· Directive 2012/18/EU

· Named dangerous substances - ANNEX I Substance is not listed.

· National regulations:

• Technical instructions (air):

Class	Share in %
III	1
NK	50-100

· Waterhazard class: .

· Other regulations, limitations and prohibitive regulations -

· 15.2 Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

SECTION 16: Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

· Reasons for revise

If necessary, this saftey data sheet can revised according to legal guidelines.

Our current version for your reference is available on our website www.heimerle-meule.com

· Relevant phrases

H290 May be corrosive to metals.
H302 Harmful if swallowed.
H314 Causes severe skin burns and eye damage.
H317 May cause an allergic skin reaction.
H318 Causes serious eye damage.
H332 Harmful if inhaled.
H335 May cause respiratory irritation.
H373 May cause damage to organs through prolonged or repeated exposure.
H412 Harmful to aquatic life with long lasting effects.

Abteilung BASU - Bau/Arbeitssicherheit/Umwelt Department BASU - Construction / Occupational Safety / Environment

sds@heimerle-meule.com

· Contact:

Herr Thomas Knuth thomas.knuth@heimerle-meule.com sds@heimerle-meule.com

 Abbreviations and acronyms: AwSV: Ordinance on facilities for handling water-polluting substances (German regulation). TRGS: Technical rules for hazardous substances (German regulation) ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International Carriage of Dangerous Goods by Road) IMDG: International Maritime Code for Dangerous Goods IATA: International Air Transport Association GHS: Globally Harmonised System of Classification and Labelling of Chemicals EINECS: European Inventory of Existing Commercial Chemical Substances ELINCS: European List of Notified Chemical Substances CAS: Chemical Abstracts Service (division of the American Chemical Society) LC50: Lethal concentration, 50 percent

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⁻ GB



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LD50: Lethal dose, 50 percent PBT: Persistent, Bioaccumulative and Toxic vPvB: very Persistent and very Bioaccumulative Met. Corr. 1: Corrosive to metals – Category 1 Acute Tox. 4: Acute toxicity – Category 4 Skin Corr. 1B: Skin corrosion/irritation – Category 1B Skin Irrit. 2: Skin corrosion/irritation – Category 2 Eye Dam. 1: Serious eye damage/eye irritation – Category 1 Eye Irrit. 2: Serious eye damage/eye irritation – Category 2 Skin Sens. 1: Skin sensitisation – Category 1 STOT SE 3: Specific target organ toxicity (single exposure) – Category 3 STOT RE 2: Specific target organ toxicity (repeated exposure) – Category 2 Aquatic Chronic 3: Hazardous to the aquatic environment - long-term aquatic hazard – Category 3 * * Data compared to the previous version altered.