

# SAFETY DATA SHEETS

**This SDS packet was issued with item:**

072358174

N/A

**Safety Data Sheet  
acc. to OSHA HCS**

Printing date 05/12/2015

Reviewed on 05/12/2015

**1 Identification**

· **Product identifier**

· **Trade name: Universal Adhesive - Silikon**

· **Relevant identified uses of the substance or mixture and uses advised against**

No further relevant information available.

· **Application of the substance / the mixture**

Tray adhesive for use with silicone impression materials

· **Details of the supplier of the safety data sheet**

· **Manufacturer/Supplier:**

Heraeus Kulzer GmbH  
Grüner Weg 11, D-63450 Hanau

Tel.: 0800 4372522

· **Information department:**

Marc Henn  
Tel. +1 (574) 2995444 / Fax: +1 (574) 2912542  
e-mail: marc.henn@kulzer-dental.com

· **Emergency telephone number:**

Emergency CONTACT (24-Hour-Number)  
GBK/Infotrac ID 105860: (domestic) 1 800 535 5053 or international (001) 352 323 3500

**2 Hazard(s) identification**

· **Classification of the substance or mixture**

Flam. Liq. 2 H225 Highly flammable liquid and vapor.

Carc. 2 H351 Suspected of causing cancer.

Eye Dam. 1 H318 Causes serious eye damage.

Skin Irrit. 2 H315 Causes skin irritation.

· **Label elements**

· **GHS label elements**

The product is classified and labeled according to the Globally Harmonized System (GHS).

· **Hazard pictograms**



GHS02 GHS05 GHS08

· **Signal word** Danger

· **Hazard-determining components of labeling:**

titanium tetrabutanolate  
ethylbenzene

· **Hazard statements**

Highly flammable liquid and vapor.

Causes skin irritation.

Causes serious eye damage.

Suspected of causing cancer.

· **Precautionary statements**

Keep away from heat/sparks/open flames/hot surfaces. - No smoking.

Use explosion-proof electrical/ventilating/lighting/equipment.

IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

Store locked up.

Dispose of contents/container in accordance with local/regional/national/international regulations.

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- **Classification system**
- **NFPA ratings for USA (scale 0-4)**



Health = 0  
Fire = 3  
Reactivity = 0

- **HMIS-Ratings (Scale 0-4)**



Health = 0  
Fire = 3  
Reactivity = 0

- **Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.

**3 Composition/information on ingredients**

- **Chemical characterization: Mixtures**

- **Dangerous components:**

141-78-6	ethyl acetate	10-25%
1330-20-7	xylene, mixed isomers, pure	5-10%
5593-70-4	titanium tetrabutanolate	0-5%
100-41-4	ethylbenzene	0-5%

**4 First-aid measures**

- **Description of first aid measures**
  - **After inhalation** Supply fresh air; consult doctor in case of complaints.
  - **After skin contact** Generally the product does not irritate the skin.
  - **After eye contact** Rinse opened eye for several minutes under running water.
  - **After swallowing** Induce vomiting and seek advice of physician.
- **Most important symptoms and effects, both acute and delayed**  
No further relevant information available.
- **Indication of any immediate medical attention and special treatment needed**  
No further relevant information available.

**5 Fire-fighting measures**

- **Extinguishing media**
  - **Suitable extinguishing agents** CO2, sand, extinguishing powder. Do not use water.
  - **For safety reasons unsuitable extinguishing agents**  
Water.  
Water with full jet.
- **Special hazards arising from the substance or mixture** Can form explosive gas-air mixtures.
- **Advice for firefighters**
  - **Protective equipment:** No special measures required.
  - **Additional information** -

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**6 Accidental release measures**

- **Personal precautions, protective equipment and emergency procedures**  
Wear protective equipment. Keep unprotected persons away.
- **Environmental precautions:** Prevent seepage into sewage system, workpits and cellars.
- **Methods and material for containment and cleaning up:**  
Absorb with liquid binding material (diatomite, universal binders, for small amounts tissues).  
Do not flush with water or aqueous cleansing agents
- **Reference to other sections**  
No dangerous substances are released.  
See Section 8 for information on personal protection equipment.

**7 Handling and storage**

- **Precautions for safe handling** Keep receptacles tightly sealed.
- **Information about protection against explosions and fires:**  
Keep ignition sources away - Do not smoke.  
Protect against electrostatic charges.
- **Conditions for safe storage, including any incompatibilities**
  - **Storage**
    - **Requirements to be met by storerooms and receptacles:** Store in a cool location.
    - **Information about storage in one common storage facility:** Not required.
    - **Further information about storage conditions:**  
Store in cool, dry conditions in well sealed receptacles.
- **Specific end use(s)** No further relevant information available.

**8 Exposure controls/personal protection**

- **Additional information about design of technical systems:** No further data; see item 7.
- **Control parameters**

· <b>Components with limit values that require monitoring at the workplace:</b>	
<b>141-78-6 ethyl acetate</b>	
PEL ()	1400 mg/m <sup>3</sup> , 400 ppm
REL ()	1400 mg/m <sup>3</sup> , 400 ppm
TLV ()	1440 mg/m <sup>3</sup> , 400 ppm
<b>1330-20-7 xylene, mixed isomers, pure</b>	
PEL ()	435 mg/m <sup>3</sup> , 100 ppm
REL ()	Short-term value: 655 mg/m <sup>3</sup> , 150 ppm Long-term value: 435 mg/m <sup>3</sup> , 100 ppm (o-, m-, & p-isomers)
TLV ()	Short-term value: 651 mg/m <sup>3</sup> , 150 ppm Long-term value: 434 mg/m <sup>3</sup> , 100 ppm BEI
<b>100-41-4 ethylbenzene</b>	
PEL ()	435 mg/m <sup>3</sup> , 100 ppm
REL ()	Short-term value: 545 mg/m <sup>3</sup> , 125 ppm Long-term value: 435 mg/m <sup>3</sup> , 100 ppm
TLV ()	Short-term value: 543 mg/m <sup>3</sup> , 125 ppm Long-term value: 434 mg/m <sup>3</sup> , 100 ppm BEI

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· **Additional information:** The lists that were valid during the creation were used as basis.

· **Exposure controls**

· **Personal protective equipment**

· **General protective and hygienic measures**

Wash hands before breaks and at the end of work.

· **Breathing equipment:** Not required.

· **Protection of hands:** Not required.

· **Material of gloves**

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer.

· **Penetration time of glove material**

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

· **For the permanent contact in work areas without heightened risk of injury (e.g. Laboratory) gloves made of the following material are suitable:**

Natural rubber, NR

· **Eye protection:** Not absolutely necessary.

· **Body protection:** Light weight protective clothing

**9 Physical and chemical properties**

· **Information on basic physical and chemical properties**

· **General Information**

· **Appearance:**

· **Form:** Fluid  
· **Color:** Blue  
· **Odor:** Ester-like

· **Change in condition**

· **Melting point/Melting range:** undetermined  
· **Boiling point/Boiling range:** >70 °C (>158 °F)

· **Flash point:** 3 °C (37 °F)

· **Ignition temperature:** >400 °C (>752 °F)

· **Auto igniting:** Product is not selfigniting.

· **Danger of explosion:** Product is not explosive. However, formation of explosive air/vapor mixtures are possible.

· **Explosion limits:**

· **Lower:** 2.1 Vol %  
· **Upper:** 11.5 Vol %

· **Vapor pressure at 20 °C (68 °F):** 102 hPa (77 mm Hg)

· **Density at 20 °C (68 °F):** 1.100 g/cm<sup>3</sup> (9.18 lbs/gal)

· **Solubility in / Miscibility with**

· **Water:** Not miscible or difficult to mix

· **Solvent content:**

· **VOC USA** 353.5 g/l / 2.95 lb/gl

· **Other information** No further relevant information available.

**10 Stability and reactivity**

· **Possibility of hazardous reactions** No dangerous reactions known

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- **Conditions to avoid** No further relevant information available.
- **Incompatible materials:** No further relevant information available.
- **Hazardous decomposition products:** none

**11 Toxicological information**

- **Information on toxicological effects**

- **Acute toxicity:**

- **LD/LC50 values that are relevant for classification:**

Oral	LD50	> 10000 mg/kg (rat)
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- **Primary irritant effect:**

- **on the skin:** No irritant effect.
- **on the eye:** No irritating effect.

- **Sensitization:** No sensitizing effects known.

- **Additional toxicological information:**

- **Carcinogenic categories**

- **IARC (International Agency for Research on Cancer)**

1330-20-7	xylene, mixed isomers, pure	3
100-41-4	ethylbenzene	2B

- **NTP (National Toxicology Program)**

None of the ingredients is listed.

- **OSHA-Ca (Occupational Safety & Health Administration)**

None of the ingredients is listed.

**12 Ecological information**

- **Toxicity**

- **Aquatic toxicity:** No further relevant information available.
- **Persistence and degradability** No further relevant information available.
- **Bioaccumulative potential** No further relevant information available.
- **Mobility in soil** No further relevant information available.
- **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.

- **Results of PBT and vPvB assessment**

- **PBT:** Not applicable.
- **vPvB:** Not applicable.

- **Other adverse effects** No further relevant information available.

**13 Disposal considerations**

- **Waste treatment methods**

- **Recommendation**

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

- **Uncleaned packagings:**

- **Recommendation:** Disposal must be made according to official regulations.

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**14 Transport information**

· <b>UN-Number</b>	
· DOT	UN1866
· ADR, IMDG, IATA	1866
· <b>UN proper shipping name</b>	
· ADR	1866 RESIN SOLUTION
· IMDG, IATA	RESIN SOLUTION
· <b>Transport hazard class(es)</b>	
· DOT	
	
· Class	3 Flammable liquids
· Label	3
· ADR, IMDG, IATA	
	
· Class	3 Flammable liquids
· Label	3
· <b>Packing group</b>	
· DOT, ADR, IMDG, IATA	II
· <b>Environmental hazards:</b>	
· Marine pollutant:	No
· <b>Special precautions for user</b>	Warning: Flammable liquids
· Danger code (Kemler):	33
· EMS Number:	F-E, S-E
· <b>Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code</b>	Not applicable.
· <b>Transport/Additional information:</b>	-
· <b>UN "Model Regulation":</b>	UN1866, RESIN SOLUTION, 3, II

**15 Regulatory information**

· <b>Safety, health and environmental regulations/legislation specific for the substance or mixture</b>	
· <b>SARA Section 355 (extremely hazardous substances)</b>	
None of the ingredients is listed.	
· <b>Carcinogenicity categories</b>	
· <b>TLV (Threshold Limit Value established by ACGIH)</b>	
1330-20-7 xylene, mixed isomers, pure	A4
· <b>GHS label elements</b>	
The product is classified and labeled according to the Globally Harmonized System (GHS).	

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· **Hazard pictograms**



GHS02 GHS05 GHS08

· **Signal word** *Danger*

· **Hazard-determining components of labeling:**

*titanium tetrabutanolate*

*ethylbenzene*

· **Hazard statements**

*Highly flammable liquid and vapor.*

*Causes skin irritation.*

*Causes serious eye damage.*

*Suspected of causing cancer.*

· **Precautionary statements**

*Keep away from heat/sparks/open flames/hot surfaces. - No smoking.*

*Use explosion-proof electrical/ventilating/lighting/equipment.*

*IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.*

*IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.*

*Store locked up.*

*Dispose of contents/container in accordance with local/regional/national/international regulations.*

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

### 16 Other information

*These data are based on our present knowledge. However, they shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.*

· **Date of preparation / last revision** 05/12/2015 / -

· **Abbreviations and acronyms:**

*ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)*

*IMDG: International Maritime Code for Dangerous Goods*

*DOT: US Department of Transportation*

*IATA: International Air Transport Association*

*ACGIH: American Conference of Governmental Industrial Hygienists*

*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)*

*NFPA: National Fire Protection Association (USA)*

*HMIS: Hazardous Materials Identification System (USA)*

*VOC: Volatile Organic Compounds (USA, EU)*

*LC50: Lethal concentration, 50 percent*

*LD50: Lethal dose, 50 percent*

*Flam. Liq. 2: Flammable liquids, Hazard Category 2*

*Skin Irrit. 2: Skin corrosion/irritation, Hazard Category 2*

*Eye Dam. 1: Serious eye damage/eye irritation, Hazard Category 1*

*Carc. 2: Carcinogenicity, Hazard Category 2*

· **\* Data compared to the previous version altered.**

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