

# Material Safety Data Sheet

(91/155/EC)

**Product name: HEBA-CON-Lacquer****Article No.: 52400 / 52401 / 52402****Print date:** May 12, 2020**Revision date:** 28.08.2018

## 1. Chemical Product and Company Identification

**1.1 Product identifier: HEBA-CON-Lacquer****1.2 Relevant identified uses of the substance or mixture and uses advised against****Use of the substance/mixture**

Silicone based lacquer for use in audiology.

**1.3 Details of the supplier of the safety data sheet****Manufacturer / distributor identification**

Company: HEBA- OTOPLASTIK Labortechnik u. Einrichtungs-  
GmbH & Co. KG  
Hauptstr. 42 D-63853 Mömlingen  
Phone: +49 6022 / 681600 Fax: +49 6022 / 31663  
E-Mail: Info@HEBA.de www.HEBA.de

**1.4 Emergency telephone number:**

Toxic emergency call Munich + 49 89 19240

(Toxicological department of the 2nd medical clinic)

## 2. Hazards identification

**2.1 Classification of the substance or mixture****Regulation (EC) No. 1272/2008**

Hazard categories:

Flammable liquid: Flam. Liq. 2

Skin corrosion/irritation: Skin Irrit. 2

Serious eye damage/eye irritation: Eye Irrit. 2

Specific target organ toxicity - single exposure: STOT SE 3

Specific target organ toxicity - single exposure: STOT SE 3

Specific target organ toxicity - repeated exposure: STOT RE 2

Hazardous to the aquatic environment: Aquatic Chronic 2

Hazard Statements:

Highly flammable liquid and vapour.

Causes skin irritation.

Causes serious eye irritation.

May cause drowsiness or dizziness.

May cause respiratory irritation.

May cause damage to organs through prolonged or repeated exposure.

Toxic to aquatic life with long lasting effects.

**2.2 Label elements****Regulation (EC) No. 1272/2008****Hazard components for labelling**

methylcyclohexane

xylene

**Signal word:** Danger

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**Pictograms:**

**Hazard statements**

H225 Highly flammable liquid and vapour.  
 H315 Causes skin irritation.  
 H319 Causes serious eye irritation.  
 H335 May cause respiratory irritation.  
 H336 May cause drowsiness or dizziness.  
 H373 May cause damage to organs through prolonged or repeated exposure.  
 H411 Toxic to aquatic life with long lasting effects.

**Precautionary statements**

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.  
 P260 Do not breathe dust/fume/gas/mist/vapours/spray.  
 P273 Avoid release to the environment.  
 P370+P378 In case of fire: Use Carbon dioxide (CO<sub>2</sub>), Foam, Extinguishing powder to extinguish.  
 P391 Collect spillage.  
 P403+P235 Store in a well-ventilated place. Keep cool.

**2.3 Other hazards**

No information available

## 3. Composition / information on ingredients

**3.1 Mixtures**
**Chemical characterization**

Polydimethylsiloxane with functional groups in organic solvents.

**Hazard components**

| CAS No.   | Chemical name   |              |                  | Quantity |
|-----------|---|--------------|------------------|----------|
|           | EC No   | Index No     | REACH No         |          |
|           | GHS Classification  |              |                  |          |
| 108-87-2  | methylcyclohexane   |              |                  | 45-<50%  |
|           | 203-624-3   | 601-018-00-7 |                  |          |
|           | Flam. Liq. 2, Skin Irrit. 2, STOT SE 3, Asp. Tox. 1, Aquatic Chronic 2; H225 H315 H336 H304 H411  |              |                  |          |
| 1330-20-7 | xylene  |              |                  | 20-<25%  |
|           | 215-535-7   | 601-022-00-9 | 01-2119488216-32 |          |
|           | Flam. Liq. 3, Acute Tox. 4, Acute Tox. 4, Skin Irrit. 2, Eye Irrit. 2, STOT SE 3, STOT RE 2, Asp. Tox. 1, Aquatic Chronic 3; H226 H332 H312 H315 H319 H335 H373 H304 H412 |              |                  |          |
| 4253-34-3 | triacetoxymethylsilane  |              |                  | 1-<5%    |
|           | 224-221-9   |              | 01-2119962266-32 |          |

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|           |  |  |                  |       |
|-----------|--|--|------------------|-------|
|           | Acute Tox. 4, Skin Corr. 1C, Eye Dam. 1; H302 H314 H318 EUH014 |  |                  |       |
| 5540-97-6 | Dodecaemthylcyclohexasiloxane                                  |  |                  | <0,5% |
|           | 208-762-8  |  | 01-2119517435-42 |       |
|           |  |  |                  |       |

Full text of H and EUH statements: see section 16.

## 4. First-aid measures

### 4.1 Description of first aid measures

#### After inhalation

Provide fresh air. Medical treatment necessary.

#### After contact with skin

After contact with skin, wash immediately with polyethylene glycol, followed by plenty of water. Take off immediately all contaminated clothing and wash it before reuse. Medical treatment necessary.

#### After contact with eyes

After contact with the eyes, rinse with water with the eyelids open for a sufficient length of time, then consult an ophthalmologist immediately.

#### After ingestion

Rinse mouth immediately and drink plenty of water.

Seek immediately medical advice. Do not induce vomiting. In case of spontaneous vomiting take care of an unhindered flow out of the vomit (danger of suffocation).

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

No information available

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

Treat symptomatically

## 5. Firefighting measures

### 5.1 Extinguishing media

**Suitable extinguishing media:** Carbon dioxide (CO<sub>2</sub>), Foam, Extinguishing powder.

**Unsuitable extinguishing media:** water

### 5.2 Special hazards arising from the substance or mixture: Highly flammable. Vapours can form explosive mixture with air.

### 5.3 Advice for firefighters: Wear a self-contained breathing apparatus and chemical protective clothing. Full protection suit.

**Additional information:** Use water spray jet to protect personnel and to cool endangered containers. Suppress gases/vapours/mists with water spray jet. Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water.

## 6. Accidental release measures

### 6.1 Personal precautions, protective equipment and emergency procedures: Remove all sources of ignition. Provide adequate ventilation. Do not breathe gas/fumes/vapour/spray.

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Avoid contact with skin, eyes and clothes. Use personal protection equipment.

**6.2 Environmental precautions:** Do not allow uncontrolled discharge of product into the environment. Danger of explosion

**6.3 Methods and material for containment and cleaning up:** Absorb with liquid-binding material (e.g. sand, diatomaceous earth, acid- or universal binding agents). Treat the recovered material as prescribed in the section on waste disposal.

**6.4 Reference to other sections**

Safe handling: see section 7

Personal protection equipment: see section 8

Disposal: see section 13

## 7. Handling and storage

**7.1 Precautions for safe handling:**

### Advice on safe handling

If handled uncovered, arrangements with local exhaust ventilation have to be used. Do not breathe gas/fumes/vapour/spray.

### Advice on protection against fire and explosion

Keep away from sources of ignition. - No smoking. Take precautionary measures against static discharges. Vapours can form explosive mixtures with air.

**7.2 Conditions for safe storage, including any incompatibilities**

### Requirements for storage rooms and vessels

Keep container tightly closed. Keep locked up. Store in a place accessible by authorized persons only. Provide adequate ventilation as well as local exhaustion at critical locations. Keep in a cool, well-ventilated place. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

### Advice on storage compatibility

Do not store together with: Oxidising agent . Pyrophoric or self-heating substances.

**7.3 Specific end use(s):** Liquid for coating of silicone based earmoulds. For use by trained specialist staff.

## 8. Exposure controls / personal protection

**8.1 Control parameters**

### Exposure limits (EH 40)

| CAS No    | Substance             | ppm       | mg/m <sup>3</sup> | fibres/ml | Category                 | Origin     |
|-----------|-----------------------|-----------|-------------------|-----------|--------------------------|------------|
| 1330-20-7 | Xylene: mixed isomers | 50<br>100 | 220<br>441        |           | TWA (8h)<br>STEL (15min) | WEL<br>WEL |

### Biological Monitoring Guidance Values (EH40)

| CAS No    | Substance                           | Paramete                          | Value        | Test material | Sampling time |
|-----------|-------------------------------------|-----------------------------------|--------------|---------------|---------------|
| 1330-20-7 | Xylene, o-, m-, p- or mixed isomers | methyl hippuric acid (creatinine) | 650 mmol/mol | urine         | Post shift    |

**8.2 Exposure controls**

### Appropriate engineering controls

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If handled uncovered, arrangements with local exhaust ventilation have to be used. Do not breathe gas/fumes/vapour/spray.

## Protective and hygiene measures

Remove contaminated, saturated clothing immediately. Draw up and observe skin protection programme. Wash hands and face before breaks and after work and take a shower if necessary. When using do not eat or drink.

## Eye/face protection

Suitable eye protection: goggles.

## Hand protection

When handling with chemical substances, protective gloves must be worn with the CE-label including the four control digits. The quality of the protective gloves resistant to chemicals must be chosen as a function of the specific working place concentration and quantity of hazardous substances. For special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves. Suitable are gloves of the following material: FKM (fluoro rubber)

## Skin protection

Flame-retardant protective clothing. Wear anti-static footwear and clothing

## Respiratory protection

In case of inadequate ventilation wear respiratory protection.

## 9. Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

|                 |                     |
|-----------------|---------------------|
| Physical state: | liquid              |
| Color:          | clear               |
| Odor:           | Xylene/ Acetic acid |

#### Test method

|           |                |
|-----------|----------------|
| pH-Value: | not determined |
|-----------|----------------|

#### Changes in the physical state

|                                    |                           |           |
|------------------------------------|---------------------------|-----------|
| Melting point:                     | not determined            |           |
| Initial boiling and boiling range: | >99 °C                    | DIN 51356 |
| Flash point:                       | < 1 °C                    | DIN 51755 |
| Sustaining combustion:             | Not sustaining combustion |           |
| Flammability:                      |                           |           |
| Solid:                             | not applicable            |           |
| Gas:                               | not applicable            |           |
| Lower explosion limits:            | 1,1 vol. %                |           |
| Upper explosion limits:            | 6,7 vol %                 |           |
| Auto-ignition temperature          |                           |           |
| Solid:                             | not applicable            |           |
| Gas:                               | not applicable            |           |
| Decomposition temperature          | not determined            |           |

#### Oxidizing properties

|                            |            |           |
|----------------------------|------------|-----------|
| Not oxidizing              |            |           |
| Vapor pressure (at 20 °C): | 48 hPa     |           |
| Density (at 20 °C):        | 0,90 g/cm³ | DIN 51757 |

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Water solubility (at 20 °C): insoluble  
**Solubility in other solvents**  
 not determined  
 Partition coefficient: not determined  
 Viscosity / dynamic (at 23 °C): 120 mPa.s  
 Vapour density: not determined  
 Evaporation rate: not determined

## 9.2 Other information

Solid content: not determined

## 10. Stability and reactivity

**10.1 Reactivity:** Highly flammable

**10.2 Chemical stability:** The product is stable under storage at normal ambient temperatures.

**10.3 Possibility of hazardous reactions:** Reacts with: strong oxidising agents. The product may attack some plastic materials.

**10.4 Conditions to avoid:** Keep away from sources of heat (e.g. hot surfaces), sparks and open flames. Vapours can form explosive mixtures with air.

**10.5 Incompatible materials:** No information available.

**10.6 Hazardous decomposition products:** The following applies for the silicone content of the product: At temperature of appr. 150°C/ 302 °F a small amount of formaldehyde can be released by oxidative degradation.

## 11. Toxicological information

### 11.1 Information on toxicological effects

#### Acute toxicity

Based on available data, the classification criteria are not met.

| CAS No.   | Chemical name                 |                  |         |          |        |
|-----------|-------------------------------|------------------|---------|----------|--------|
|           | Exposure route                | Dose             | Species | Source   | Method |
| 108-87-2  | methylcyclohexane             |                  |         |          |        |
|           | Oral                          | LD50 3200 mg/kg  | Rat     | GESTIS   |        |
|           | Dermal                        | LD50 86000 mg/kg | Rabbit  |          |        |
| 1330-20-7 | xylene                        |                  |         |          |        |
|           | Oral                          | LD50 2000 mg/kg  | Rat     | GESTIS   |        |
|           | Dermal                        | LD50 2000 mg/kg  | Rabbit  | GESTIS   |        |
|           | Inhalation (4h) vapor         | LC50 29,8 mg/l   | Rat     | GESTIS   |        |
|           | Inhalation aerosol            | ATE 1,5 mg/l     |         |          |        |
| 4253-34-3 | triacetoxymethylsilane        |                  |         |          |        |
|           | Oral                          | LD50 1600 mg/kg  | Rat     | OECD 401 |        |
| 540-97-6  | Dodecaemthylcyclohexasiloxane |                  |         |          |        |

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|  |        |                 |     |  |  |
|--|--------|-----------------|-----|--|--|
|  | oral   | LD50 2000 mg/kg | Rat |  |  |
|  | dermal | LD50 2000 mg/kg | Rat |  |  |

**Irritation and corrosivity:** Causes skin irritation. Causes serious eye irritation.

**Sensitising effects:** Based on available data, the classification criteria are not met.

**Carcinogenic/mutagenic/toxic effects for reproduction:** Based on available data, the classification criteria are not met.

**STOT-single exposure**

May cause respiratory irritation. (xylene). May cause drowsiness or dizziness. (methylcyclohexane)

**STOT-repeated exposure:** May cause damage to organs through prolonged or repeated exposure. (xylene)

**Aspiration hazard :** Based on available data, the classification criteria are not met.

**Additional information on tests:** This mixture is classified as hazardous according to regulation (EC) No. 1272/2008 [CLP].

## 12. Ecological Information

### 12.1 Toxicity

Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

| CAS No.   |                          |                       |         |                                     |        |        |
|-----------|--------------------------|-----------------------|---------|-------------------------------------|--------|--------|
|           | Aquatic toxicity         | Dose                  | [h] [d] | Spezies                             | Source | Method |
| 108-87-2  | methylcyclohexane        |                       |         |                                     |        |        |
|           | Acute fish toxicity      | LC50 58,5 mg/l        | 96 h    |                                     | GESTIS |        |
|           | Acute crustacea toxicity | EC50 1,47 mg/l        | 48 h    | Daphnia magna                       | ECOTOX |        |
| 1330-20-7 | xylene                   |                       |         |                                     |        |        |
|           | Acute fish toxicity      | LC50 2,661-4,093 mg/l | 96 h    | Oncorhynchus mykiss (Rainbow trout) |        |        |
|           | Acute crustacea toxicity | EC50 3,82 mg/l        | 48 h    |                                     |        |        |

### 12.2 Persistence and degradability

The product has not been tested

### 12.3 Bioaccumulative potential

The product has not been tested.

**Partition coefficient n-octanol/water**

| CAS No.   | Chemical name     | Log Pow |
|-----------|-------------------|---------|
| 108-87-2  | methylcyclohexane | 3,88    |
| 1330-20-7 | Xylene            | 3,15    |

**BCF**

| CAS No.   | Chemical name | BCF    | Species | Source |
|-----------|---------------|--------|---------|--------|
| 1330-20-7 | xylene        | 0,6-15 |         |        |

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**12.4 Mobility in soil:** The product has not been tested.

**12.5 Results of PBT and vPvB assesment:** Dodecamethylcyclhexasiloxane (D6) fulfills the current criteria set forth under Annex XIII of the EU REACH Regulation for very persistent and very bioaccumulative substances (vPvB) and was included in the candidate list of substances of very high concern (SVHC). According to our knowledge of the state of the art, however, D6 cannot be compared with known persistent, bioaccumulative and toxic (PBT) and/or vPvB substances. The interpretation of the available data by the silicone industry reveals that scientific evidence obtained from field tests essentially points out that D6 does not lead to biomagnification in aquatic and terrestrial food chains. In air, D6 is decomposed by naturally occurring processes in the atmosphere. D-residues which do not decompose in this way in the air are not expected to accumulate from the air in water, the soil or living organisms.

**12.6 Other adverse effects:** Not information available.

**Further information: ological effects:** Do not allow to enter into surface water or drains. Do not allow to enter into soil/subsoil.

## 13. Disposal considerations

### 13.1 Waste treatment methods

**Advice on disposal:**

Do not allow to enter into surface water or drains. Do not allow to enter into soil/subsoil. Dispose of waste according to applicable legislation.

**Contaminated packaging:**

This material and its container must be disposed of as hazardous waste. Handle contaminated packages in the same way as the substance itself.

## 14. Transport Information

### Land transport (ADR/RID)

|  |                |
|--|----------------|
| <b>14.1. UN number:</b>                  | UN 1866        |
| <b>14.2. UN proper shipping name:</b>    | Resin solution |
| <b>14.3. Transport hazard class(es):</b> | 3              |
| <b>14.4. Packing group:</b>              | II             |
| Hazard label:                            | 3              |
| Classification code:                     | F1             |
| Limited quantity:                        | 5 L/ 30kg      |
| Hazard No:                               | 33             |
| Tunnel restriction code:                 | D/E            |

### Marine transport (IMDG)

|  |                |
|--|----------------|
| <b>14.1. UN number:</b>                  | UN 1866        |
| <b>14.2. UN proper shipping name:</b>    | Resin solution |
| <b>14.3. Transport hazard class(es):</b> | 3              |
| <b>14.4. Packing group:</b>              | II             |
| Hazard label:                            | 3              |



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Marine pollutant: yes  
Special Provisions: -  
Limited quantity: 5L/ 30kg  
EmS: F-E, S-E

**Other applicable information (marine transport)**

Flash point: -4 °C c.c.

**Air transport (ICAO-TI/IATA-DGR)**

- 14.1. UN number:** UN 1866  
**14.2. UN proper shipping name:** Resin solution  
**14.3. Transport hazard class(es):** 3  
**14.4. Packing group:** II  
Hazard label: 3  
Limited quantity Passenger: 1 L/ 30 kg  
Passenger LQ: Y341  
IATA-packing instructions - Passenger: 353  
IATA-max. quantity - Passenger: 5 L  
IATA-packing instructions - Cargo: 364  
IATA-max. quantity - Cargo: 60 L  
**14.5. Environmental hazards:**  
ENVIRONMENTALLY HAZARDOUS: yes  
**14.6. Special precautions for user**  
Warning: Combustible liquid.  
**14.7. Transport in bulk according to Annex II of Marpol and the IBC Code**  
not applicable

## 15. Regulatory information

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

**EU regulatory information**

**Additional information**

To follow: 850/2004/EC, 79/117/EEC, 689/2008/EC

The mixture contains substances of very high concern (SVHC candidates):  
Dodecamethylcyclhexasiloxane (D6), CAS no. 540-97-6

**National regulatory information**

Employment restrictions: Observe restrictions to employment for juvenils according to the 'juvenile work protection guideline' (94/33/EC).

Water contaminating class (D): 2 - clearly water contaminating

**15.2. Chemical safety assessment**

Chemical safety assessments for substances in this mixture were not carried out.

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## 16. Other information

### 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  
IATA: International Air Transport Association  
GHS: Globally Harmonized 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  
LC50: Lethal concentration, 50%  
LD50: Lethal dose, 50%

### Classification for mixtures and used evaluation method according to Regulation (EC)

#### No. 1272/2008 [CLP]

| Classification          | Classification procedure |
|-------------------------|--------------------------|
| Flam. Liq. 2; H225      | On basis of test data    |
| Skin Irrit. 2; H315     | Calculation method       |
| Eye Irrit. 2; H319      | Calculation method       |
| STOT SE 3; H335         | Calculation method       |
| STOT SE 3; H336         | Calculation method       |
| STOT RE 2; H373         | Calculation method       |
| Aquatic Chronic 2; H411 | Calculation method       |

### Relevant H and EUH statements (number and full text)

|        |  |
|--------|--|
| H225   | Highly flammable liquid and vapour.                                |
| H226   | Flammable liquid and vapour  |
| H304   | May be fatal if swallowed and enters airways.                      |
| H312   | Harmful in contact with skin.                                      |
| H315   | Causes skin irritation.  |
| H319   | Causes serious eye irritation.                                     |
| H332   | Harmful if inhaled.  |
| H335   | May cause respiratory irritation.                                  |
| H336   | May cause drowsiness or dizziness.                                 |
| H373   | May cause damage to organs through prolonged or repeated exposure. |
| H411   | Toxic to aquatic life with long lasting effects.                   |
| H412   | Harmful to aquatic life with long lasting effects.                 |
| EUH014 | Reacts violently with water.                                       |

### Further information

The information is based on present level of our knowledge. It does not, however, give assurances of product properties and establishes no contract legal rights. The receiver of our product is singularly responsible for adhering to existing laws and regulations.

The data for the hazardous ingredients were taken respectively from the last version of the sub-contractor's safety *data sheet.*)