

## Safety data sheet

### Leichtspachtel SL

Uniprox Safety data sheet in accordance with regulation (EC) 1907/2006

Product: Leichtspachtel SL

Date/ Revised: 15.10.2021

Document No.: M14\_1\_Leichtspachtel\_SL\_006\_EN

#### 1. Substance/preparation and company identification

Trade name: Leichtspachtel SL (M14-1)

Application of the substance/ the preparation: Filler for orthopaedic technology

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#### 2. Hazards Identification

##### 2.1 Classification of the substance or mixture

The product has been classified according to the legislation in force.

**Classification according to Regulation (EC) No 1272/2008**



Flam. Liq. 3

H226 Flammable liquid and vapour.



Repr. 2  
STOT RE 1

H361d Suspected of damaging the unborn child.  
H372 Causes damage to the hearing organs through prolonged or repeated exposure.



Skin Irrit. 2  
Eye Irrit. 2  
STOT SE 3  
Aquatic Chronic 3

H315 Causes skin irritation.  
H319 Causes serious eye irritation.  
H335 May cause respiratory irritation.  
H412 Harmful to aquatic life with long lasting effects.

##### 2.2. Label elements

**Labelling according to Regulation (EC) No 1272/2008**

The product is classified and labelled according to the CLP regulation.

### Hazard pictograms



Signal word Danger

### Hazard-determining components of labelling:

Styrene

### Hazard Statement(s):

H226 Flammable liquid and vapour.

H315 Causes skin irritation.

H319 Causes serious eye irritation.

H361d Suspected of damaging the unborn child.

H335 May cause respiratory irritation.

H372 Causes damage to the hearing organs through prolonged or repeated exposure.

H412 Harmful 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.

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

P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower].

P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

### 2.3. Other hazards

### Results of PBT and vPvB assessment

PBT: Not applicable.

vPvB: Not applicable.

## 3. Composition/information on ingredients

### 3.2 Chemical characterisation: Mixtures

**Description:** Mixture of substances listed below with nonhazardous additions.

### Dangerous components:

CAS: 100-42-5 EINECS: 202-851-5 Reg.nr.: 01-2119457861-32	Styrene Flam. Liq. 3, H226; Repr. 2, H361d; STOT RE 1, H372; Asp. Tox. 1, H304; Acute Tox. 4, H332; Skin Irrit. 2, H315; Eye Irrit. 2, H319; STOT SE 3, H335; Aquatic Chronic 3, H412	25-50%
CAS: 67-56-1 EINECS: 200-659-6	methanol Flam. Liq. 2, H225; Acute Tox. 3, H301; Acute Tox. 3, H311; Acute Tox. 3, H331; STOT SE 1, H370	<1%
CAS: 38668-48-3 EINECS: 254-075-1	1,1'-(p-tolylimino)dipropen-2-ol Acute Tox. 2, H300; Eye Irrit. 2, H319; Aquatic Chronic 3, H412	<1%

**Additional information:** For the wording of the listed hazard phrases refer to section 16.

## 4. First-aid measures

### 4.1. Description of first aid measures

**General information:** Immediately remove any clothing soiled by the product.

**After inhalation:** Supply fresh air; consult doctor in case of complaints.

**After skin contact:** Immediately rinse with water.

**After eye contact:**

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

**After swallowing:** If symptoms persist consult doctor.

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

No further relevant information available.

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**5. Firefighting measures****5.1 Extinguishing media****Suitable extinguishing agents:**

CO<sub>2</sub>, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

**5.2 Special hazards arising from the substance or mixture**

During heating or in case of fire poisonous gases are produced.

**5.3 Advice for firefighters**

**Protective equipment:** Mouth respiratory protective device.

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**6. Accidental release measures****6.1 Personal precautions, protective equipment and emergency procedures**

Mount respiratory protective device.

Wear protective equipment. Keep unprotected persons away.

**6.2 Environmental precautions:**

Do not allow product to reach sewage system or any water course.

Inform respective authorities in case of seepage into water course or sewage system.

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.

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**7. Handling and storage****7.1 Precautions for safe handling**

Ensure good ventilation/exhaustion at the workplace.

Open and handle receptacle with care.

Prevent formation of aerosols.

**Information about fire - and explosion protection:**

Keep ignition sources away - Do not smoke.

Protect against electrostatic charges.

Keep respiratory protective device available.

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

**Requirements to be met by storerooms and receptacles:** No special requirements.

**Information about storage in one common storage facility:** Store away from foodstuffs.

**Further information about storage conditions:** Keep container tightly sealed.

**Storage class:** 3

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

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**8. Exposure controls and personal protection**

### 8.1. Control parameters

**Additional information about design of technical facilities:** No further data; see item 7.

**Ingredients with limit values that require monitoring at the workplace:**

#### 100-42-5 Styrene

WEL Short-term value: 1080 mg/m<sup>3</sup>, 250 ppm

Long-term value: 430 mg/m<sup>3</sup>, 100 ppm

#### 67-56-1 methanol

WEL Short-term value: 333 mg/m<sup>3</sup>, 250 ppm

Long-term value: 266 mg/m<sup>3</sup>, 200 ppm

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**Additional information:** The lists valid during the making were used as basis.

### 8.2 Exposure controls

**Personal protective equipment:**

**General protective and hygienic measures:**

Keep away from foodstuffs, beverages and feed.

Immediately remove all soiled and contaminated clothing

Wash hands before breaks and at the end of work.

Store protective clothing separately.

Avoid contact with the eyes.

Avoid contact with the eyes and skin.

**Respiratory protection:**

In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use self-contained respiratory protective device.

**Protection of hands:**

Selection of the glove material on consideration of the penetration times, rates of diffusion and The degradation

Protective gloves (EN 374)

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

**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. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

**Eye protection:**

Tightly sealed goggles

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## 9. Physical and chemical properties

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

**General Information**

**Appearance:**

**Form:** Fluid

**Colour:** According to product specification

**Odour:** Characteristic

**Odour threshold:** Not determined.

**pH-value:** Not determined.

**Change in condition**

**Melting point/freezing point:** Undetermined.

**Initial boiling point / boiling range:** 145.2 °C

**Flash point:** 31 °C (DIN EN ISO 1523:2002)

**Flammability (solid, gas):** Not applicable.

**Decomposition temperature:** Not determined.

<b>Auto-ignition temperature:</b>	Product is not selfigniting.
<b>Explosive properties:</b>	Product is not explosive. However, formation of explosive air/ vapour mixtures are possible.
<b>Explosion limits:</b>	
<b>Lower:</b>	1.2 Vol %
<b>Upper:</b>	8.9 Vol %
<b>Vapour pressure at 20 °C:</b>	6 hPa
<b>Density at 20 °C:</b>	0.431 g/cm <sup>3</sup> (DIN EN ISO 2811-1)
<b>Relative density</b>	Not determined.
<b>Vapour density</b>	Not determined.
<b>Evaporation rate</b>	Not determined.
<b>Solubility in / Miscibility with water:</b>	Fully miscible.
<b>Partition coefficient: n-octanol/water:</b>	Not determined.
<b>Viscosity:</b>	
<b>Dynamic at 20 °C:</b>	54,000-66,000 mPas
<b>Kinematic:</b>	Not determined.
<b>Solvent content:</b>	
<b>VOC (EC)</b>	0.77 %
<b>Solids content (weight-%):</b>	69.8 %
<b>9.2 Other information</b>	No further relevant information available.

## 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** No dangerous reactions known.

**10.4 Conditions to avoid** No further relevant information available.

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

**10.6 Hazardous decomposition products:** Carbon monoxide

## 11. Toxicological information

### 11.1 Information on toxicological effects

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

#### **LD/LC50 values relevant for classification:**

##### **100-42-5 Styrene**

Oral	LD50	5,000 mg/kg (rat)
Dermal	LD50	>2,000 mg/kg (rat)
Inhalative	LC50/4 h	11.8 mg/l (rat)

#### **Primary irritant effect:**

##### **Skin corrosion/irritation**

Causes skin irritation.

##### **Serious eye damage/irritation**

Causes serious eye irritation.

##### **Respiratory or skin sensitisation**

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

#### **Additional toxicological information:**

##### **CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)**

**Germ cell mutagenicity** Based on available data, the classification criteria are not met.

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

##### **Reproductive toxicity**

Suspected of damaging the unborn child.

**STOT-single exposure**

May cause respiratory irritation.

**STOT-repeated exposure**

Causes damage to the hearing organs through prolonged or repeated exposure.

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

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**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.

**Ecotoxicological effects:**

**Remark:** Harmful to fish

**Additional ecological information:**

**General notes:**

Water hazard class 2 (German Regulation): hazardous for water

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.

Harmful to aquatic organisms

**12.5 Results of PBT and vPvB assessment**

**PBT:** Not applicable.

**vPvB:** Not applicable.

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

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**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.

**Uncleaned packaging:**

**Recommendation:**

Packagings that may not be cleansed are to be disposed of in the same manner as the product.

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

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**14. Transport information**

**14.1 UN-Number**

**ADR, IMDG, IATA** UN1263

**14.2 UN proper shipping name**

**ADR** UN1263 PAINT

**IMDG, IATA** PAINT

**14.3 Transport hazard class(es)**

**ADR**

**Class** 3 (F1) Flammable liquids.

**Label** 3

**IMDG, IATA**

**Class** 3 Flammable liquids.

**Label** 3

**14.4 Packing group**

**ADR, IMDG, IATA** III

**14.5 Environmental hazards:** Not applicable.

<b>14.6 Special precautions for user</b>	Warning: Flammable liquids.
<b>Hazard identification number (Kemler code):</b>	30
<b>EMS Number:</b>	F-E,S-E
<b>Stowage Category</b>	A
<b>14.7 Transport in bulk according to Annex II of Marpol and the IBC Code</b>	Not applicable.
<b>Transport/Additional information: ADR</b>	
<b>Limited quantities (LQ)</b>	5L
<b>Transport category</b>	3
<b>Tunnel restriction code</b>	D/E
<b>Remarks:</b>	≤ 450 l: 2.2.3.1.5 ADR
<b>IMDG</b>	
<b>Limited quantities (LQ)</b>	5L
<b>Remarks:</b>	≤ 450 l: 2.3.2.5 IMDG
<b>UN "Model Regulation":</b>	UN 1263 PAINT, 3, III

## 15. Regulatory information

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

**Directive 2012/18/EU**

**Named dangerous substances - ANNEX I** None of the ingredients is listed.

**Seveso category P5c** FLAMMABLE LIQUIDS

**Qualifying quantity (tonnes) for the application of lower-tier requirements** 5,000 t

**Qualifying quantity (tonnes) for the application of upper-tier requirements** 50,000 t

**National regulations:**

**Additional classification according to Decree on Hazardous Materials, Annex II:**

Class	Share in %
I	< 1
NK	25-50

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

## 16. Other information

### Relevant phrases

- H225 Highly flammable liquid and vapour.
- H226 Flammable liquid and vapour.
- H300 Fatal if swallowed.
- H301 Toxic if swallowed.
- H304 May be fatal if swallowed and enters airways.
- H311 Toxic in contact with skin.
- H315 Causes skin irritation.
- H319 Causes serious eye irritation.
- H331 Toxic if inhaled.
- H332 Harmful if inhaled.
- H335 May cause respiratory irritation.
- H361d Suspected of damaging the unborn child.
- H370 Causes damage to organs.
- H372 Causes damage to organs through prolonged or repeated exposure.
- H412 Harmful to aquatic life with long lasting effects.

**Classification according to Regulation (EC) No 1272/2008**

The classification of the mixture is generally based on the calculation method using substance data according to Regulation (EC) No 1272/2008.

Revision Information

This version replaces all previous versions.

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