

## Safety Data Sheet in accordance with HSNO

Printing date 19.02.2024

Version number 4

Revision: 19.02.2024

### 1 Identification of the substance or mixture and of the supplier

- **Product identifier**
- **Trade name:** SOFT-LINER Liquid
- **Relevant identified uses of the substance or mixture and uses advised against**  
No further relevant information available.
- **Application of the substance / the mixture** Auxillary for dental technology
- **Details of the supplier of the safety data sheet**  
Henry Schein Dental  
  
243-249 Bush Road, Rosedale  
Auckland 0632, NEW ZEALAND  
  
Free Phone: 0800 808 855
- **Further information obtainable from:** Regulatory affairs
- **Emergency telephone number:** 0800 764 766 (National Poisons Centre)

### 2 Hazards identification

- **Classification of the substance or mixture**  
Flam. Liq. 2 H225 Highly flammable liquid and vapour.
- **Label elements**
- **GHS label elements** The product is classified and labelled according to the Globally Harmonised System (GHS).
- **Exemptions**  
The product, regulated as an invasive medical device by the Regulation (EC) 2017/745, is exempted from labelling requirements for substances and mixtures (according to the provision of the Art 1.5).
- **Hazard pictograms**



GHS02

- **Signal word** Danger
- **Hazard statements**  
Highly flammable liquid and vapour.
- **Precautionary statements**  
Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.  
Keep container tightly closed.  
Wear protective gloves/protective clothing/eye protection/face protection/hearing protection.  
IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower].  
Store in a well-ventilated place. Keep cool.  
Dispose of contents/container in accordance with local/regional/national/international regulations.
- **Other hazards**
- **Results of PBT and vPvB assessment**
- **PBT:** Not applicable.

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· **vPvB:** Not applicable.

### 3 Composition/Information on ingredients

- **Chemical characterisation: Mixtures**
- **Description:**

Only substances required to be mentioned according to Annex II of regulation 1907/2006 are listed. Information on the other substances that may be present can be obtained upon request.

- **Dangerous components:**

|                   |               |                    |         |
|-------------------|---------------|--------------------|---------|
| CAS: 64-17-5      | ethyl alcohol | Flam. Liq. 2, H225 | 10-<25% |
| EINECS: 200-578-6 |               |                    |         |

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

### 4 First aid measures

- **General information:** If symptoms persist consult doctor.
- **After inhalation:**  
Supply fresh air. If required, provide artificial respiration. Keep patient warm. Consult doctor if symptoms persist. Take affected persons into fresh air and keep quiet.
- **After skin contact:** 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:**  
Rinse out mouth and then drink plenty of water.  
If symptoms persist consult doctor.
- **Information for doctor:**
- **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

- **Suitable extinguishing agents:**  
CO<sub>2</sub>, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.  
Use fire extinguishing methods suitable to surrounding conditions.
- **For safety reasons unsuitable extinguishing agents:** Water with full jet
- **Special hazards arising from the substance or mixture**  
Formation of toxic gases is possible during heating or in case of fire.  
No further relevant information available.
- **Protective equipment:** Wear self-contained respiratory protective device.
- **Additional information**  
Dispose of fire debris and contaminated fire fighting water in accordance with official regulations.

### 6 Accidental release measures

- **Personal precautions, protective equipment and emergency procedures**  
Remove persons from danger area.  
Keep away from ignition sources.

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*Wear protective clothing.***· Environmental precautions:***Do not allow product to reach sewage system or any water course.**Do not allow to penetrate the ground/soil.***· Methods and material for containment and cleaning up:***Ensure adequate ventilation.**Absorb liquid components with liquid-binding material.**Dispose of the material collected according to regulations.***· 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.*

### 7 Handling and storage

**· Handling:****· Precautions for safe handling** No special precautions are necessary if used correctly.**· Information about fire - and explosion protection:***Keep ignition sources away - Do not smoke.**Protect against electrostatic charges.**Do not spray onto a naked flame or any incandescent material.***· Storage:****· Requirements to be met by storerooms and receptacles:***Store in a cool location.**Store only in unopened original receptacles.***· Information about storage in one common storage facility:** Store away from foodstuffs.**· Further information about storage conditions:***Keep container tightly sealed.**Store in cool, dry conditions in well sealed receptacles.**Protect from heat and direct sunlight.**Store in a cool place.***· Specific end use(s)** No further relevant information available.

### 8 Exposure controls/personal protection

**· Additional information about design of technical facilities:** No further data; see section 7.**· Ingredients with limit values that require monitoring at the workplace:****64-17-5 ethyl alcohol**

|                   |                                                           |
|-------------------|-----------------------------------------------------------|
| WES (New Zealand) | Long-term value: 1880 mg/m <sup>3</sup> , 1000 ppm<br>oto |
|-------------------|-----------------------------------------------------------|

**· Additional information:** The lists valid during the making were used as basis.**· Personal protective equipment:****· General protective and hygienic measures:***The usual precautionary measures are to be adhered to when handling chemicals.**Wash hands before breaks and at the end of work.***· Respiratory protection:** Suitable respiratory protective device recommended.**· Protection of hands:** Protective gloves**· 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.*

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· **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.

· **Eye protection:**



Tightly sealed goggles

### 9 Physical and chemical properties

· **General Information**

· **Appearance:**

|                           |                 |
|---------------------------|-----------------|
| · <b>Form:</b>            | Liquid          |
| · <b>Colour:</b>          | Clear           |
| · <b>Odour:</b>           | Characteristic  |
| · <b>Odour threshold:</b> | Not determined. |
| · <b>pH-value:</b>        | Not determined. |

· **Change in condition**

|                                                   |                                               |
|---------------------------------------------------|-----------------------------------------------|
| · <b>Melting point/freezing point:</b>            | Undetermined.                                 |
| · <b>Initial boiling point and boiling range:</b> | 78 °C                                         |
| · <b>Flash point:</b>                             | 13 °C                                         |
| · <b>Flammability (solid, gas):</b>               | Highly flammable.                             |
| · <b>Auto-ignition temperature:</b>               | Undetermined.                                 |
| · <b>Decomposition temperature:</b>               | Not determined.                               |
| · <b>Ignition temperature:</b>                    | Product is not selfigniting.                  |
| · <b>Explosive properties:</b>                    | Product does not present an explosion hazard. |
| · <b>Explosion limits:</b>                        |                                               |
| · <b>Lower:</b>                                   | 3.5 Vol %                                     |
| · <b>Upper:</b>                                   | 15 Vol %                                      |
| · <b>Vapour pressure:</b>                         | Not determined.                               |
| · <b>Density at 20 °C:</b>                        | 0.9 g/cm <sup>3</sup>                         |
| · <b>Relative density</b>                         | Not determined.                               |
| · <b>Vapour density</b>                           | Not determined.                               |
| · <b>Evaporation rate</b>                         | Not determined.                               |
| · <b>Solubility in / Miscibility with</b>         |                                               |
| · <b>water:</b>                                   | Fully miscible.                               |
| · <b>Partition coefficient: n-octanol/water:</b>  | Not determined.                               |
| · <b>Viscosity:</b>                               |                                               |
| · <b>Dynamic:</b>                                 | Not determined.                               |
| · <b>Kinematic:</b>                               | Not determined.                               |
| · <b>Solvent content:</b>                         |                                               |
| · <b>Organic solvents:</b>                        | 15.0 %                                        |
| · <b>VOC (EC)</b>                                 | 135.0 g/l                                     |

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

### 10 Stability and reactivity

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

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- **Thermal decomposition / conditions to be avoided:** No decomposition if used according to specifications.
- **Possibility of hazardous reactions** No dangerous reactions known.
- **Conditions to avoid** No further relevant information available.
- **Incompatible materials:** No further relevant information available.
- **Hazardous decomposition products:** No dangerous decomposition products known.

### 11 Toxicological information

- **Information on toxicological effects**
- **Acute toxicity** Based on available data, the classification criteria are not met.

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

##### 64-17-5 ethyl alcohol

|            |          |                         |
|------------|----------|-------------------------|
| Oral       | LD50     | 7,060 mg/kg (rat (f+m)) |
| Inhalative | LC50/4 h | 20,000 mg/l (rat (f+m)) |

- **Skin corrosion/irritation** Based on available data, the classification criteria are not met.
- **Serious eye damage/irritation** Based on available data, the classification criteria are not met.
- **Respiratory or skin sensitisation** Based on available data, the classification criteria are not met.
- **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** Based on available data, the classification criteria are not met.
- **STOT-single exposure** Based on available data, the classification criteria are not met.
- **STOT-repeated exposure** Based on available data, the classification criteria are not met.
- **Aspiration hazard** Based on available data, the classification criteria are not met.
- **Additional toxicological information:**
- **Repeated dose toxicity** No further relevant information available.
- **CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)**  
No further relevant information available.

### 12 Ecological information

- **Toxicity**
- **Aquatic toxicity:** No further relevant information available.
- **Persistence and degradability** No further relevant information available.
- **Behaviour in environmental systems:**
- **Bioaccumulative potential** No further relevant information available.
- **Mobility in soil** No further relevant information available.
- **Additional ecological information:**
- **General notes:**  
Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.
- **Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.
- **Other adverse effects** No further relevant information available.

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### 13 Disposal considerations

- **Waste treatment methods**
- **Recommendation**  
Must not be disposed together with household garbage. Do not allow product to reach sewage system.
- **Uncleaned packaging:**
- **Recommendation:** Disposal must be made according to official regulations.
- **Recommended cleansing agents:** Water, if necessary together with cleansing agents.

### 14 Transport information

- |                                                                                     |                               |
|-------------------------------------------------------------------------------------|-------------------------------|
| · <b>UN-Number</b>                                                                  | UN1170                        |
| · <b>NZS, IMDG, IATA</b>                                                            |                               |
| · <b>UN proper shipping name</b>                                                    | 1170 ETHANOL SOLUTION mixture |
| · <b>NZS</b>                                                                        | ETHANOL SOLUTION mixture      |
| · <b>IMDG, IATA</b>                                                                 |                               |
| · <b>Transport hazard class(es)</b>                                                 |                               |
| · <b>NZS</b>                                                                        |                               |
|   |                               |
| · <b>Class</b>                                                                      | 3 (F1) Flammable liquids.     |
| · <b>Label</b>                                                                      | 3                             |
|                                                                                     |                               |
| · <b>IMDG, IATA</b>                                                                 |                               |
|  |                               |
| · <b>Class</b>                                                                      | 3 Flammable liquids.          |
| · <b>Label</b>                                                                      | 3                             |
| · <b>Packing group</b>                                                              |                               |
| · <b>NZS, IMDG, IATA</b>                                                            | II                            |
| · <b>Environmental hazards:</b>                                                     |                               |
| · <b>Marine pollutant:</b>                                                          | No                            |
| · <b>Special precautions for user</b>                                               | Warning: Flammable liquids.   |
| · <b>Hazard identification number (Kemler code):</b>                                | 33                            |
| · <b>EMS Number:</b>                                                                | F-E,S-D                       |
| · <b>Stowage Category</b>                                                           | A                             |
| · <b>Transport in bulk according to Annex II of Marpol and the IBC Code</b>         | Not applicable.               |

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**· Transport/Additional information:****· NZS****· Limited quantities (LQ)**

1L

**· Excepted quantities (EQ)**

Code: E2

Maximum net quantity per inner packaging: 30 ml

Maximum net quantity per outer packaging: 500 ml

**· Transport category**

2

**· Tunnel restriction code**

D/E

**· IMDG****· Limited quantities (LQ)**

1L

**· Excepted quantities (EQ)**

Code: E2

Maximum net quantity per inner packaging: 30 ml

Maximum net quantity per outer packaging: 500 ml

**· UN "Model Regulation":**

UN 1170 ETHANOL SOLUTION MIXTURE, 3, II

### 15 Regulatory information

**· Safety, health and environmental regulations/legislation specific for the substance or mixture****· New Zealand Inventory of Chemicals**

All ingredients are listed.

**· HSNO Approval numbers**

64-17-5 ethyl alcohol

HSR001144

**· GHS label elements** The product is classified and labelled according to the Globally Harmonised System (GHS).**· Hazard pictograms**

GHS02

**· Signal word** Danger**· Hazard statements**

Highly flammable liquid and vapour.

**· Precautionary statements**

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

Keep container tightly closed.

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

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

Store in a well-ventilated place. Keep cool.

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

**· 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

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

### 16 Other information

· **Relevant phrases***H225 Highly flammable liquid and vapour.*· **Department issuing SDS:** Regulatory affairs· **Contact:** *msds@gc.dental*· **Abbreviations and acronyms:***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**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)**VOC: Volatile Organic Compounds (USA, EU)**LC50: Lethal concentration, 50 percent**LD50: Lethal dose, 50 percent**PBT: Persistent, Bioaccumulative and Toxic**vPvB: very Persistent and very Bioaccumulative**Flam. Liq. 2: Flammable liquids – Category 2*· **Sources**· ECHA (<http://echa.europa.eu/>)· EnviChem ([www.echemportal.org](http://www.echemportal.org))· **\* Data compared to the previous version altered.***This version replaces all previous versions.***Disclaimer:**

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