

**Safety data sheet**  
according to 1907/2006/EC, Article 31

Printing date 24.06.2019

Version number 2

Revision: 24.06.2019

### SECTION 1: Identification of the substance/mixture and of the company/undertaking

· **1.1 Product identifier**

· **Trade name:** *Liquid Elements Foliendetailer (Wrap Detailer)*

· **1.2 Relevant identified uses of the substance or mixture and uses advised against**  
*No further relevant information available.*

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

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

· **Manufacturer/Supplier:**

AREA 52 GmbH

Thüdingenfeld 4

D-58256 Ennepetal

Germany

tel. +49-(0)2333-3068945

*e-mail: info@liquidelements.de*

· **Further information obtainable from:** *Product safety department*

· **1.4 Emergency telephone number:** *tel.: +49 (0)2333-3068945 (Monday to friday: 8:00 - 17:00)*

### SECTION 2: Hazards identification

· **2.1 Classification of the substance or mixture**

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



GHS05 corrosion

*Eye Dam. 1 H318 Causes serious eye damage.*



GHS07

*Skin Irrit. 2 H315 Causes skin irritation.*

· **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**



GHS05

· **Signal word** *Danger*

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

*Siloxanes and Silicones, 3-[(2-aminoethyl)amino]propyl Me, di-Me*

· **Hazard statements**

*H315 Causes skin irritation.*

*H318 Causes serious eye damage.*

· **Precautionary statements**

*P101 If medical advice is needed, have product container or label at hand.*

*P102 Keep out of reach of children.*

*P260 Do not breathe spray.*

*P280 Wear protective gloves / eye protection.*

*P302+P352 IF ON SKIN: Wash with plenty of soap and water.*

*P310 Immediately call a POISON CENTER/doctor/producer.*

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

· **Additional information:** *Void*

(Contd. on page 2)

**Safety data sheet**  
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Version number 2

Revision: 24.06.2019

**Trade name: Liquid Elements Foliendetailer (Wrap Detailer)**

(Contd. of page 1)

**2.3 Other hazards****Results of PBT and vPvB assessment****PBT:**

The product does not contain any PBT (PBT: persistent, bioaccumulative, toxic) substance or does not fulfil criteria for PBT according to annex XIII of regulation (EC) 1907/2006 (< 0,1 %).

**vPvB:**

The product does not contain any vPvB (vPvB: very persistent, very bioaccumulative) substance or does not fulfil criteria for vPvB according to annex XIII of regulation (EC) 1907/2006 (< 0,1 %).

\* **SECTION 3: Composition/information on ingredients**

**3.2 Mixtures**

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

**Dangerous components:**

CAS: 71750-79-3 EC number: 615-336-9	Siloxanes and Silicones, 3-[(2-aminoethyl)amino]propyl Me, di-Me ⚠ Skin Corr. 1B, H314; Eye Dam. 1, H318	1-<5%
CAS: 111-76-2 EINECS: 203-905-0 Index number: 603-014-00-0 Reg.nr.: 01-2119475108-36	2-butoxyethanol ⚠ Acute Tox. 4, H302; Acute Tox. 4, H312; Acute Tox. 4, H332; Skin Irrit. 2, H315; Eye Irrit. 2, H319	1-<5%
CAS: 67-63-0 EINECS: 200-661-7 Index number: 603-117-00-0 Reg.nr.: 01-2119457558-25	propan-2-ol ⚠ Flam. Liq. 2, H225 ⚠ Eye Irrit. 2, H319; STOT SE 3, H336	1-<2.5%

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

**SECTION 4: First aid measures**

**4.1 Description of first aid measures**

**General information:** If symptoms persist consult doctor.

**After inhalation:** Fresh air. If pain persists, get medical attention.

**After skin contact:** Immediately wash with water and soap and rinse thoroughly.

**After eye contact:**

Immediately flush eyes with plenty of water with lids lifted. If symptoms persist, seek medical advice. Protect unharmed eye.

**After swallowing:**

Rinse out mouth and drink plenty of water.

Do not induce vomiting; call for medical help immediately.

**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:**

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:** Full water jet

**5.2 Special hazards arising from the substance or mixture** No further relevant information available.

**5.3 Advice for firefighters****Protective equipment:**

Mouth respiratory protective device.

Do not inhale explosion gases or combustion gases.

(Contd. on page 3)

**Safety data sheet**  
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Version number 2

Revision: 24.06.2019

**Trade name: Liquid Elements Foliendetailer (Wrap Detailer)**

(Contd. of page 2)

- **Additional information**  
Dispose of fire debris and contaminated fire fighting water in accordance with official regulations.

### SECTION 6: Accidental release measures

- **6.1 Personal precautions, protective equipment and emergency procedures**  
Wear protective clothing.  
Particular danger of slipping on leaked/spilled product.
- **6.2 Environmental precautions:**  
Do not allow to enter sewers/ surface or ground water.  
Inform respective authorities in case of seepage into water course or sewage system.
- **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.
- **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**  
Observe the usual precautionary measures for handling chemicals.  
Avoid contact with eyes and skin.  
Do not breathe aerosol.  
Use only in well ventilated areas.
- **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:** No special requirements.
- **Information about storage in one common storage facility:** Not required.
- **Further information about storage conditions:**  
Store in dry conditions at 10 - 25 °C.  
Protect from frost.
- **Storage class:** 10 - 13 (Germany)
- **7.3 Specific end use(s)** No further relevant information available.

### SECTION 8: Exposure controls/personal protection

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

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

**111-76-2 2-butoxyethanol**

IOELV	Short-term value: 246 mg/m <sup>3</sup> , 50 ppm
	Long-term value: 98 mg/m <sup>3</sup> , 20 ppm
	Skin

- **Additional information:** The lists valid during the making were used as basis.
- **8.2 Exposure controls**
- **Personal protective equipment:**
- **General protective and hygienic measures:**  
Observe the usual precautionary measures for handling chemicals.  
Avoid contact with the eyes and skin.  
Do not inhale gases / fumes / aerosols.

(Contd. on page 4)

**Safety data sheet**  
according to 1907/2006/EC, Article 31

Printing date 24.06.2019

Version number 2

Revision: 24.06.2019

**Trade name: Liquid Elements Foliendetailer (Wrap Detailer)**

(Contd. of page 3)

Wash hands before breaks and at the end of work.

· **Respiratory protection:**

Not necessary if room is well-ventilated.

Use suitable respiratory protective device in case of insufficient ventilation.

· **Protection of hands:**

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

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

Protective gloves according EN 374.

Check the permeability prior to each renewed use of the glove.

· **Material of gloves**

Nitrile rubber, NBR

Recommended thickness of the material:  $\geq 0.5$  mm

Penetration time:  $\geq 480$  minutes (Permeation according to EN 374 Part 3: Level 6)

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.

· **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.

The determined penetration times according to EN 374 part III are not performed under practical conditions.

Therefore a maximum wearing time, which corresponds to 50% of the penetration time, is recommended.

· **Eye protection:**

Safety glasses

Goggles should comply with DIN EN 166 or similar standard.

· **Body protection:** Protective work clothing

## SECTION 9: Physical and chemical properties

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

· **General Information**

· **Appearance:**

Form: Liquid

Colour: Light purple

· **Odour:** Characteristic

· **Odour threshold:** Not determined.

· **pH-value:** Not determined.

· **Change in condition**

Melting point/freezing point: Not determined.

Initial boiling point and boiling range: nicht bestimmt

· **Flash point:** nicht bestimmt

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

· **Decomposition temperature:** Not determined.

· **Auto-ignition temperature:** Product is not selfigniting.

· **Explosive properties:** Product does not present an explosion hazard.

· **Explosion limits:**

Lower: Not determined.

Upper: Not determined.

· **Oxidising properties:** Not applicable.

· **Vapour pressure:** Not determined.

· **Density at 20 °C:** ~ 0.995 g/cm<sup>3</sup>

(Contd. on page 5)

**Safety data sheet**  
according to 1907/2006/EC, Article 31

Printing date 24.06.2019

Version number 2

Revision: 24.06.2019

**Trade name: Liquid Elements Foliendetailer (Wrap Detailer)**

(Contd. of page 4)

· <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:</b>	Not determined.
<b>Kinematic:</b>	Not determined.
· <b>Solvent content:</b>	
<b>Organic solvents:</b>	< 10 %
<b>Solids content:</b>	< 5 %
· <b>9.2 Other information</b>	No further relevant information available.

### 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 and stored according to specifications.
- **10.3 Possibility of hazardous reactions** No dangerous reactions known.
- **10.4 Conditions to avoid** Protect from frost.
- **10.5 Incompatible materials:** No further relevant information available.
- **10.6 Hazardous decomposition products:** No dangerous decomposition products known.

### SECTION 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:**

**111-76-2 2-butoxyethanol**

Oral	LD50	1,480 mg/kg (rat)
Dermal	LD50	1,060 mg/kg (rabbit)
Inhalative	LC50/8 h	10-20 mg/m <sup>3</sup> (rat)

**67-63-0 propan-2-ol**

Oral	LD50	4,570 mg/kg (rat)
Dermal	LD50	13,400 mg/kg (rabbit)
Inhalative	LC50/4 h	>10,000 mg/l (rat) (OECD 403)

- **Primary irritant effect:**
- **Skin corrosion/irritation**  
Causes skin irritation.
- **Serious eye damage/irritation**  
Causes serious eye damage.
- **Respiratory or skin sensitisation** Based on available data, the classification criteria are not met.
- **Repeated dose toxicity** No further relevant information available.
- **CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)**  
No further relevant information available.
- **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.
- **Germ cell mutagenicity** Based on available data, the classification criteria are not met.

(Contd. on page 6)

**Safety data sheet**  
according to 1907/2006/EC, Article 31

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Version number 2

Revision: 24.06.2019

Trade name: *Liquid Elements Foliendetailer (Wrap Detailer)*

(Contd. of page 5)

- **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.

## SECTION 12: Ecological information

### 12.1 Toxicity

#### Aquatic toxicity:

##### 111-76-2 2-butoxyethanol

EC50	911 mg/l (algae) (72 h)
	1,550 mg/l (daphnia magna) (48 h)
LC50	>100-1,700 mg/l (fish)

##### 67-63-0 propan-2-ol

EC50	>100 mg/l (fish) (72 h)
	>100 mg/l (daphnia magna) (48 h)
LC50	9,640 mg/l (fish) (96 h (Pimephales promelas))

- **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.
- **Additional ecological information:**
- **General notes:**  
Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.
- **12.5 Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.
- **12.6 Other adverse effects** No further relevant information available.

## 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. Dispose of in accordance with all applicable local and national regulations.

#### European waste catalogue

07 02 17	waste containing silicones other than those mentioned in 07 02 16
15 01 02	plastic packaging

- **Uncleaned packaging:**
- **Recommendation:**  
Dispose of in accordance with all applicable local and national regulations. Non contaminated packagings may be recycled.

## SECTION 14: Transport information

- |                                       |      |
|---------------------------------------|------|
| · <b>14.1 UN-Number</b>               |      |
| · <b>ADR, ADN, IMDG, IATA</b>         | Void |
| · <b>14.2 UN proper shipping name</b> |      |
| · <b>ADR, ADN, IMDG, IATA</b>         | Void |

(Contd. on page 7)



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Trade name: *Liquid Elements Foliendetailer (Wrap Detailer)*

(Contd. of page 6)

· <b>14.3 Transport hazard class(es)</b>	
· <b>ADR, ADN, IMDG, IATA</b>	
· <b>Class</b>	Void
· <b>14.4 Packing group</b>	
· <b>ADR, IMDG, IATA</b>	Void
· <b>14.5 Environmental hazards:</b>	
· <b>Marine pollutant:</b>	No
· <b>14.6 Special precautions for user</b>	Not applicable.
· <b>14.7 Transport in bulk according to Annex II of Marpol and the IBC Code</b>	Not applicable.
· <b>UN "Model Regulation":</b>	Void

### SECTION 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.
- **National regulations:**
- **Information about limitation of use:**  
Employment restrictions concerning juveniles must be observed.  
Employment restrictions concerning pregnant and lactating women must be observed, if applicable.
- **15.2 Chemical safety assessment:**  
A Chemical Safety Assessment has not been carried out, because it is not necessary for mixtures.

### 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.*

- **Relevant phrases**  
H225 Highly flammable liquid and vapour.  
H302 Harmful if swallowed.  
H312 Harmful in contact with skin.  
H314 Causes severe skin burns and eye damage.  
H315 Causes skin irritation.  
H318 Causes serious eye damage.  
H319 Causes serious eye irritation.  
H332 Harmful if inhaled.  
H336 May cause drowsiness or dizziness.
- **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.
- **Department issuing SDS:**  
Chemisches Labor & Consulting - Dr. Ulrich Böinig  
Simonshöfchen 55, D-42327 Wuppertal  
Germany  
Tel.: +49-(0)202-7387557
- **Contact:** Mr. Boenig, PhD.
- **Abbreviations and acronyms:**  
CLP: Classification, Labelling and Packaging (Regulation (EC) No. 1272/2008  
REACH: Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals.

(Contd. on page 8)

**Safety data sheet**  
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Version number 2

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**Trade name: Liquid Elements Foliendetailer (Wrap Detailer)**

(Contd. of page 7)

*EC50: effective concentration, 50 percent**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 Harmonised System of Classification and Labelling of Chemicals**VCI: Verband der chemischen Industrie, Deutschland (German chemical industry 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)**DNEL: Derived No-Effect Level (REACH)**PNEC: Predicted No-Effect Concentration (REACH)**LC50: Lethal concentration, 50 percent**LD50: Lethal dose, 50 percent**PBT: persistent, bioaccumulative, toxic**vPvB: very persistent, very bioaccumulative**Flam. Liq. 2: Flammable liquids – Category 2**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**STOT SE 3: Specific target organ toxicity (single exposure) – Category 3***· \* Data compared to the previous version altered.**

EU