

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

Printing date 10.07.2019

Version number 1

Revision: 26.11.2018

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

· **1.1 Product identifier**

· **Trade name:** *Liquid Elements Base Coat 9H*

· **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](mailto: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**



GHS02 flame

*Flam. Liq. 2 H225 Highly flammable liquid and vapour.*



GHS07

*Acute Tox. 4 H302 Harmful if swallowed.*

*Eye Irrit. 2 H319 Causes serious eye 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**



GHS02 GHS07

· **Signal word** *Danger*

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

*aluminium tris(2,4-pentanedionato-O,O')*

· **Hazard statements**

*H225 Highly flammable liquid and vapour.*

*H302 Harmful if swallowed.*

*H319 Causes serious eye irritation.*

· **Precautionary statements**

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

*P102 Keep out of reach of children.*

*P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.*

*P233 Keep container tightly closed.*

*P264 Wash hands thoroughly after handling.*

*P270 Do not eat, drink or smoke when using this product.*

(Contd. on page 2)

# Safety data sheet

## according to 1907/2006/EC, Article 31

Printing date 10.07.2019

Version number 1

Revision: 26.11.2018

**Trade name: Liquid Elements Base Coat 9H**

(Contd. of page 1)

P301+P312 *IF SWALLOWED: Call a POISON CENTER/doctor/producer if you feel unwell.*  
 P305+P351+P338 *IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.*

P501 *Dispose of contents/container to an authorised waste disposal contractor or licensed local authority disposal / landfill site.*

- **Labelling of packages where the contents do not exceed 125 ml**
- **Hazard pictograms**



GHS02 GHS07

- **Signal word** *Danger*

- **Hazard-determining components of labelling:**  
aluminium tris(2,4-pentanedionato-O,O')

- **Hazard statements**

H302 *Harmful if swallowed.*

- **Precautionary statements**

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

P102 *Keep out of reach of children.*

P264 *Wash hands thoroughly after handling.*

P270 *Do not eat, drink or smoke when using this product.*

P301+P312 *IF SWALLOWED: Call a POISON CENTER/doctor/producer if you feel unwell.*

P501 *Dispose of contents/container to an authorised waste disposal contractor or licensed local authority disposal / landfill site.*

- **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: 1185-55-3 EINECS: 214-685-0 Reg.nr.: 01-2119517436-40	trimethoxy(methyl)silane ⚠ Flam. Liq. 2, H225	30-<40%
CAS: 13963-57-0 EINECS: 237-741-6	aluminium tris(2,4-pentanedionato-O,O') ⚠ Acute Tox. 3, H301 ⚠ Eye Irrit. 2, H319	8-<12%

- **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:**

*Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.*

(Contd. on page 3)

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

Printing date 10.07.2019

Version number 1

Revision: 26.11.2018

**Trade name: Liquid Elements Base Coat 9H**

(Contd. of page 2)

- **After inhalation:**  
Supply fresh air. If required, provide artificial respiration. Keep patient warm. Consult doctor if symptoms persist.  
In case of unconsciousness place patient stably in side position for transportation.
- **After skin contact:**  
Immediately wash with water and soap and rinse thoroughly.  
If skin irritation continues, consult a doctor.
- **After eye contact:**  
Immediately flush eyes with plenty of water with lids lifted. If symptoms persist, seek medical advice.
- **After swallowing:**  
Rinse out mouth with water.  
Give nothing to drink.  
Do not induce vomiting; call for medical help immediately.
- **4.2 Most important symptoms and effects, both acute and delayed** Nausea
- **4.3 Indication of any immediate medical attention and special treatment needed**  
Treatment after assessment of medical condition by a physician. Present safety data sheet or label.

### SECTION 5: Firefighting measures

- **5.1 Extinguishing media**
- **Suitable extinguishing agents:**  
CO<sub>2</sub>, sand, extinguishing powder. Do not use water.  
Use fire extinguishing methods suitable to surrounding conditions.
- **For safety reasons unsuitable extinguishing agents:** Water
- **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:**  
Wear self-contained respiratory protective device.  
Do not inhale explosion gases or combustion gases.
- **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**  
Ensure adequate ventilation  
Wear protective equipment. Keep unprotected persons away.  
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:**  
Ensure adequate ventilation.  
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).  
Dispose contaminated material as waste according to item 13.  
Do not flush with water or aqueous cleansing agents
- **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.

(Contd. on page 4)

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

Printing date 10.07.2019

Version number 1

Revision: 26.11.2018

**Trade name: Liquid Elements Base Coat 9H**

(Contd. of page 3)

- Avoid contact with eyes and skin.
- Use only in well ventilated areas.
- Store in cool, dry place in tightly closed receptacles.
- **Information about fire - and explosion protection:**
  - Keep ignition sources away - Do not smoke.
  - Protect against electrostatic charges.
  - Avoid contact with hot surfaces.
- **7.2 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:**
    - Observe regulations / technical rules for the assembly of flammable liquids.
    - Store away from oxidising agents.
    - Store away from foodstuffs.
  - **Further information about storage conditions:**
    - Protect from heat and direct sunlight.
    - Store in cool, dry conditions in well sealed receptacles.
- **Storage class:** 3 (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:**
  - Decomposition product

#### 67-56-1 methanol

IOELV	Long-term value: 260 mg/m <sup>3</sup> , 200 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.
  - Keep away from foodstuffs, beverages and feed.
  - Wash hands before breaks and at the end of work.
- **Respiratory protection:** Use suitable respiratory protective device in case of insufficient ventilation.
- **Recommended filter device for short term use:** Filter A
- **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.

(Contd. on page 5)

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

Printing date 10.07.2019

Version number 1

Revision: 26.11.2018

**Trade name: Liquid Elements Base Coat 9H**

(Contd. of page 4)

- **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:** Transparent

- **Odour:** Weak, characteristic

- **Odour threshold:** Not determined.

- **pH-value:** Not applicable.

- **Change in condition**

**Melting point/freezing point:** Not determined.

**Initial boiling point and boiling range:** 82 °C

- **Flash point:** < 23 °C

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

- **Decomposition temperature:** Not determined.

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

- **Explosive properties:** Product is not explosive. However, formation of explosive air/vapour mixtures are possible.

- **Explosion limits:**

**Lower:** Not determined.

**Upper:** Not determined.

- **Oxidising properties** Not applicable.

- **Vapour pressure:** Not determined.

- **Density at 20 °C:** ~ 0,97 g/cm<sup>3</sup>

- **Relative density** Not determined.

- **Vapour density** Not determined.

- **Evaporation rate** Not determined.

- **Solubility in / Miscibility with water:**

Insoluble.

- **Partition coefficient: n-octanol/water:** Not determined.

- **Viscosity:**

**Dynamic:** Not determined.

**Kinematic:** Not determined.

- **Solvent content:**

**Solids content:** 10.0 %

- **9.2 Other information** No further relevant information available.

EU

(Contd. on page 6)

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

Printing date 10.07.2019

Version number 1

Revision: 26.11.2018

Trade name: *Liquid Elements Base Coat 9H*

(Contd. of page 5)

### 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.  
Keep away from heat, hot surfaces, sparks, open flames and other ignition sources.  
Keep away from sources of ignition.
- **10.3 Possibility of hazardous reactions** Reacts with acids, alkalis and oxidising agents.
- **10.4 Conditions to avoid** Do not heat. Protect from sun light. Keep away from sources of ignition.
- **10.5 Incompatible materials:** Acids and alkalis.
- **10.6 Hazardous decomposition products:**  
Reacts slowly with water, acids and alkaline compounds and creates below mentioned compounds:  
methanol

### SECTION 11: Toxicological information

- **11.1 Information on toxicological effects**
  - **Acute toxicity**  
Harmful if swallowed.
- |   |      |                    |
|---|------|--------------------|
| · <b>LD/LC50 values relevant for classification:</b>      |      |                    |
| <b>1185-55-3 trimethoxy(methyl)silane</b>                 |      |                    |
| Oral  | LD50 | 12,500 mg/kg (rat) |
| <b>13963-57-0 aluminium tris(2,4-pentanedionato-O,O')</b> |      |                    |
| Oral  | LD50 | 48.7 mg/kg (rat)   |
- **Primary irritant effect:**
  - **Skin corrosion/irritation** Based on available data, the classification criteria are not met.
  - **Serious eye damage/irritation**  
Causes serious eye irritation.
  - **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.
  - **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:** 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.
- **Additional ecological information:**
- **General notes:** Do not allow product to reach ground water, water course or sewage system.
- **12.5 Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.

(Contd. on page 7)



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

Printing date 10.07.2019

Version number 1

Revision: 26.11.2018

Trade name: *Liquid Elements Base Coat 9H*

(Contd. of page 6)

· **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 16*	waste containing hazardous silicones
15 01 10*	packaging containing residues of or contaminated by hazardous substances

· **Uncleaned packaging:**· **Recommendation:**

Dispose of in accordance with all applicable local and national regulations.  
Non contaminated packagings may be recycled.

### SECTION 14: Transport information

· **14.1 UN-Number**· **ADR, IMDG, IATA**

UN1993

· **14.2 UN proper shipping name**· **ADR**

1993 FLAMMABLE LIQUID, N.O.S. (trimethoxy(methyl)silane)

· **IMDG, IATA**

FLAMMABLE LIQUID, N.O.S. (trimethoxy(methyl)silane)

· **14.3 Transport hazard class(es)**· **ADR, IMDG, IATA**· **Class**

3 Flammable liquids.

· **Label**

3

· **14.4 Packing group**· **ADR, IMDG, IATA**

II

· **14.5 Environmental hazards:**· **Marine pollutant:**

No

· **14.6 Special precautions for user**

Warning: Flammable liquids.

· **Danger code (Kemler):**

33

· **EMS Number:**F-E,S-E· **Stowage Category**

B

· **14.7 Transport in bulk according to Annex II of Marpol and the IBC Code**

Not applicable.

· **Transport/Additional information:**· **ADR**· **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

(Contd. on page 8)

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

Printing date 10.07.2019

Version number 1

Revision: 26.11.2018

**Trade name: Liquid Elements Base Coat 9H**

(Contd. of page 7)

· <b>Tunnel restriction code</b>	D/E
· <b>IMDG</b>	
· <b>Limited quantities (LQ)</b>	1L
· <b>Excepted quantities (EQ)</b>	Code: E2 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 500 ml
· <b>UN "Model Regulation":</b>	UN 1993 FLAMMABLE LIQUID, N.O.S. (TRIMETHOXY(METHYL)SILANE), 3, II

### 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.
- **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:**
- **Information about limitation of use:**  
Employment restrictions concerning juveniles must be observed.  
Employment restrictions concerning pregnant and lactating women must be observed, if applicable.
- **Other regulations, limitations and prohibitive regulations**  
The product has to be fitted with a tactile warning.
- **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.  
H301 Toxic if swallowed.  
H319 Causes serious eye irritation.
- **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:** Product safety department
- **Contact:** Product safety department
- **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.  
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

(Contd. on page 9)



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

Printing date 10.07.2019

Version number 1

Revision: 26.11.2018

**Trade name: Liquid Elements Base Coat 9H**

(Contd. of page 8)

*LD50: Lethal dose, 50 percent**PBT: persistent, bioaccumulative, toxic**vPvB: very persistent, very bioaccumulative**Flam. Liq. 2: Flammable liquids – Category 2**Acute Tox. 3: Acute toxicity – Category 3**Acute Tox. 4: Acute toxicity – Category 4**Eye Irrit. 2: Serious eye damage/eye irritation – Category 2*

EU