

# Safety data sheet

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

Printing date 20.12.2023

Version number 2 (replaces version 1)

Revision: 20.12.2023

- **1.1 Product identifier**
- **Trade name: *Omnident - Löffeladhäsiv Alginat Liquid***
- **1.2 Relevant identified uses of the substance or mixture and uses advised against**
- **Technical function** Adhesion promotor
- **Application of the substance / the mixture** Adhesives
- **1.3 Details of the supplier of the safety data sheet**
- **Manufacturer/Supplier:**  
*Hersteller/Lieferant:*  
 PRISMAN GmbH  
 Otto Hahn Ring 6-18  
 D-64653 Lorsch - Germany
- 
- Vertrieb durch:*  
 OMNIDENT DentalHandelsgesellschaft mbH  
 Gutenbergring 5  
 D-63110 Rodgau  
 Tel.: +49 (0) 6106 874-0
- **Further information obtainable from:**  
*Produktmanagement*  
 Fon: +49 (6106) 8 74 - 0
- **1.4 Emergency telephone number:**  
*Erreichbar werktags von: 8.00 - 16.30 Uhr*  
 Tel: +49 (6106) 874 -0  
 Fax: +49 (6106) 874 -265  
 info@omnident.de

## SECTION 2: Hazards identification

- **2.1 Classification of the substance or mixture**
- **Classification according to Regulation (EC) No 1272/2008**  
*Flam. Liq. 2 H225 Highly flammable liquid and vapour.*
- **2.2 Label elements**
- **Labelling according to Regulation (EC) No 1272/2008**  
*The product is classified and labelled according to the GB CLP regulation.*
- **Hazard pictograms**



GHS02

- **Signal word** *Danger*
- **Hazard statements**  
*H225 Highly flammable liquid and vapour.*
- **Precautionary statements**  
*P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.*  
*P233 Keep container tightly closed.*  
*P280 Wear protective gloves / eye protection.*  
*P302+P352 IF ON SKIN: Wash with plenty of water.*  
*P501 Dispose of contents/container in accordance with local/regional/national/international regulations.*
- **Additional information:**  
*Contains 2-(2-aminoethylamino)ethanol. May produce an allergic reaction.*
- **2.3 Other hazards**
- **Results of PBT and vPvB assessment**
- **PBT:** Not applicable.

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· **vPvB:** Not applicable.

### SECTION 3: Composition/information on ingredients

#### 3.2 Mixtures

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

#### · Dangerous components:

CAS: 64-17-5 EINECS: 200-578-6 Index number: 603-002-00-5 RTECS: KQ 6300000 Reg.nr.: 01-2119457610-43-XXXX	ethanol ⚠ Flam. Liq. 2, H225	50-100%
CAS: 111-41-1 EINECS: 203-867-5 Index number: 603-194-00-0 RTECS: KJ 6300000 Reg.nr.: 01-2119456894-24-XXXX	2-(2-aminoethylamino)ethanol ⚠ Repr. 1B, H360Df ⚠ Skin Corr. 1B, H314 ⚠ Skin Sens. 1, H317 Specific concentration limit: STOT SE 3; H335: C ≥ 5 %	≤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

##### · After inhalation:

Take affected persons into fresh air and keep quiet.

Seek medical treatment in case of complaints.

##### · After skin contact:

Generally the product does not irritate the skin.

Rinse with warm water.

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.

Seek medical treatment.

· **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.

##### · 5.2 Special hazards arising from the substance or mixture

In case of fire, the following can be released:

Carbon monoxide (CO)

Nitrogen oxides (NO<sub>x</sub>)

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- **5.3 Advice for firefighters**
- **Protective equipment:**  
Do not inhale explosion gases or combustion gases.  
Mouth respiratory protective device.

**SECTION 6: Accidental release measures**

- **6.1 Personal precautions, protective equipment and emergency procedures**  
Ensure adequate ventilation  
Keep away from ignition sources.  
Wear protective equipment. Keep unprotected persons away.
- **6.2 Environmental precautions:**  
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 section 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.

**SECTION 7: Handling and storage**

- **7.1 Precautions for safe handling**  
Keep receptacles tightly sealed.  
Prevent formation of aerosols.  
Open and handle receptacle with care.  
Ensure good ventilation/exhaustion at the workplace.  
Store in cool, dry place in tightly closed receptacles.  
Keep away from heat and direct sunlight.
- **Information about fire - and explosion protection:**  
Keep ignition sources away - Do not smoke.  
Protect from heat.  
Do not spray onto a naked flame or any incandescent material.  
Flammable gas-air mixtures may form in empty receptacles.  
When heated the product forms flammable fumes.  
Fumes can combine with air to form an explosive mixture.  
Highly volatile, flammable constituents are released during processing.  
Protect against electrostatic charges.
- **7.2 Conditions for safe storage, including any incompatibilities**
- **Storage:**
- **Requirements to be met by storerooms and receptacles:**  
Store in a cool location.  
Store only in the original receptacle.
- **Information about storage in one common storage facility:** Not required.
- **Further information about storage conditions:**  
Keep container tightly sealed.  
Store in cool, dry conditions in well sealed receptacles.

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

### SECTION 8: Exposure controls/personal protection

#### · 8.1 Control parameters

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

**64-17-5 ethanol**

WEL Long-term value: 1920 mg/m<sup>3</sup>, 1000 ppm

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

#### · 8.2 Exposure controls

- **Appropriate engineering controls** No further data; see section 7.
- **Individual protection measures, such as personal protective equipment**
- **General protective and hygienic measures:** Wash hands before breaks and at the end of work.
- **Respiratory protection:** Not required.
- **Hand protection**



Protective gloves

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

#### · **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.

#### · **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.

· **For the permanent contact in work areas without heightened risk of injury (e.g. Laboratory) gloves made of the following material are suitable:**

Rubber gloves

· **For the permanent contact gloves made of the following materials are suitable:**

- Polychloroprene - CR (0.5 mm): Breakthrough time > 4 h
- Nitrile rubber/nitrile latex - NBR (0.35 mm): Breakthrough time > 4h
- Butyl rubber - Butyl (0.5 mm): Breakthrough time > 8 h
- Fluororubber - FKM (0.4 mm): Breakthrough time > 8 h
- Polyvinyl chloride - PVC (0.5 mm): Breakthrough time > 4 h

This recommendation is based exclusively on the chemical compatibility and the test according to EN 374 under laboratory conditions.

Depending on the application, different requirements may arise. Therefore the  
Therefore, the recommendations of the protective glove supplier must also be taken into account.

Neoprene gloves

· **As protection from splashes gloves made of the following materials are suitable:**

- Natural rubber, NR
- Nitrile rubber, NBR
- Butyl rubber, BR

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· Eye/face protection



Tightly sealed goggles

### SECTION 9: Physical and chemical properties

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

##### · General Information

· Physical state	Fluid
· Colour:	Red
· Odour:	Characteristic
· Odour threshold:	Not determined.
· Melting point/freezing point:	Undetermined.
· Boiling point or initial boiling point and boiling range	78 °C
· Flammability	Highly flammable.
· Lower and upper explosion limit	
· Lower:	3.5 Vol %
· Upper:	15 Vol %
· Flash point:	13 °C
· Auto-ignition temperature:	425 °C
· Decomposition temperature:	Not determined.
· pH	Not applicable
· Viscosity:	
· Kinematic viscosity	Not determined.
· Dynamic:	Not determined.
· Solubility	
· water:	Partly miscible.
· Partition coefficient n-octanol/water (log value)	Not determined.
· Vapour pressure at 20 °C:	59 hPa
· Density and/or relative density	
· Density at 20 °C:	0.89 g/cm <sup>3</sup>
· Relative density	Not determined.
· Vapour density	Not determined.

#### · 9.2 Other information

· Appearance:	
· Form:	Fluid
· Important information on protection of health and environment, and on safety.	
· Ignition temperature:	Product is not selfigniting.
· Explosive properties:	Product is not explosive. However, formation of explosive air/vapour mixtures are possible.
· Solvent content:	
· Organic solvents:	58.0 %
· VOC (EC)	58 %
· Change in condition	
· Evaporation rate	Not determined.

#### · Information with regard to physical hazard classes

· Explosives	Void
· Flammable gases	Void

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· <b>Aerosols</b>	Void
· <b>Oxidising gases</b>	Void
· <b>Gases under pressure</b>	Void
· <b>Flammable liquids</b>	Highly flammable liquid and vapour.
· <b>Flammable solids</b>	Void
· <b>Self-reactive substances and mixtures</b>	Void
· <b>Pyrophoric liquids</b>	Void
· <b>Pyrophoric solids</b>	Void
· <b>Self-heating substances and mixtures</b>	Void
· <b>Substances and mixtures, which emit flammable gases in contact with water</b>	Void
· <b>Oxidising liquids</b>	Void
· <b>Oxidising solids</b>	Void
· <b>Organic peroxides</b>	Void
· <b>Corrosive to metals</b>	Void
· <b>Desensitised explosives</b>	Void

### 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 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:** No dangerous decomposition products known.

### SECTION 11: Toxicological information

- **11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008**
- **Acute toxicity** Based on available data, the classification criteria are not met.

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

##### 64-17-5 ethanol

Oral	LD50	>2,000 mg/kg (rat)
Dermal	LD50	>2,000 mg/kg (rabbit)
Inhalative	LC50/4 h	>20 mg/l (rat)

##### 111-41-1 2-(2-aminoethylamino)ethanol

Oral	LD50	2,150,000 mg/kg (rat)
Dermal	LD50	>2,000 mg/kg (rabbit)

- **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.

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· **11.2 Information on other hazards**

· **Endocrine disrupting properties**

None of the ingredients is listed.

**SECTION 12: Ecological information**

· **12.1 Toxicity**

· **Aquatic toxicity:**

**64-17-5 ethanol**

EC50 >10,000 mg/kg (daphnia)

EC50 275 mg/l (A)

>10,000 mg/l (daphnia)

LC50/96h 15,300 mg/l (fish)

LC50/48h 5,012 mg/l (daphnia)

**111-41-1 2-(2-aminoethylamino)ethanol**

EC50 2,200,000 mg/l (daphnia)

· **12.2 Persistence and degradability** Easily biodegradable

· **12.3 Bioaccumulative potential** Does not accumulate in organisms

· **12.4 Mobility in soil** No further relevant information available.

· **12.5 Results of PBT and vPvB assessment**

· **PBT:** Not applicable.

· **vPvB:** Not applicable.

· **12.6 Endocrine disrupting properties**

The product does not contain substances with endocrine disrupting properties.

· **12.7 Other adverse effects**

· **Additional ecological information:**

· **General notes:**

Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous for water

Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

**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.

· **Uncleaned packaging:**

· **Recommendation:** Disposal must be made according to official regulations.

· **Recommended cleansing agents:**

Alcohol

Water, if necessary together with cleansing agents.

**SECTION 14: Transport information**

· **14.1 UN number or ID number**

· **ADR, IMDG, IATA**

UN1133

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

1133 ADHESIVES

· **IMDG, IATA**

ADHESIVES

· **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.

· **Hazard identification number (Kemler code):**

33

· **EMS Number:**

F-E,S-D

· **14.7 Maritime transport in bulk according to IMO instruments**

Not applicable.

· **Transport/Additional information:**· **ADR**· **Excepted quantities (EQ)**

Code: E2

Maximum net quantity per inner packaging: 30 ml

Maximum net quantity per outer packaging: 500 ml

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

5L

· **Excepted quantities (EQ)**

Code: E2

Maximum net quantity per inner packaging: 30 ml

Maximum net quantity per outer packaging: 500 ml

## SECTION 15: Regulatory information

· **15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**· **Labelling according to Regulation (EC) No 1272/2008**

GHS label elements

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

· **Hazard pictograms**

GHS02

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

H225 Highly flammable liquid and vapour.

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- **Precautionary statements**
- P210 *Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.*
- P233 *Keep container tightly closed.*
- P280 *Wear protective gloves / eye protection.*
- P302+P352 *IF ON SKIN: Wash with plenty of water.*
- P501 *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
- **15.2 Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

### 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.*
- H314 *Causes severe skin burns and eye damage.*
- H317 *May cause an allergic skin reaction.*
- H360Df *May damage the unborn child. Suspected of damaging fertility.*
- **Abbreviations and acronyms:**
- RID: *Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)*
- IATA-DGR: *Dangerous Goods Regulations by the "International Air Transport Association" (IATA)*
- ICAO: *International Civil Aviation Organisation*
- ICAO-TI: *Technical Instructions by the "International Civil Aviation Organisation" (ICAO)*
- 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*
- GHS: *Globally Harmonised 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 (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*
- Skin Corr. 1B: *Skin corrosion/irritation – Category 1B*
- Skin Sens. 1: *Skin sensitisation – Category 1*
- Repr. 1B: *Reproductive toxicity – Category 1B*
- **\* Data compared to the previous version altered.**

GB