

## Safety data sheet in accordance with regulation (EC) no. 1907/2006 (amended by regulation (EU) Nr. 453/2010)

Date of issue: 23.04.2015

Aqua Spacer THINNER – thinner for water  
removable die spacer / - CAD/CAM spacer  
03-4170

Date of revision: 22.01.16

Valid from: 01.01.15

Version: 3

Replaces version: 2

### Section 1: Identification of the substance/ mixture and of the company

#### 1.1 Product Identifier

Substances: ethanol, isopropanol  
Index-no.: 603-002-00-5, 603-117-00-0  
EG-no.: 200-578-6, 200-661-7  
CAS-no.: 64-17-5, 67-63-0  
REACH-registration no.: void according to (EG) no. 1907/2006 (REACH)  
**Other means or identification:** not determined

#### 1.2 Relevant identified uses of the substance or mixture and uses advised against

Relevant identified uses:

SU 22 dental field – commercial use (dental labs).

Product category: thinner

Process class: brush application

Environmental release category: industrial use of processing aids in processes and products not becoming part of articles.

Uses advised against:

Should not be used outside a dental lab.

#### 1.3 Details of the supplier of the safety data sheet

##### Supplier:

al dente Dentalprodukte GmbH

##### Street:

Am Tobel 15

##### Address / zip-code / town:

D-88263 Horgenzell

##### Information contact:

+49 (0) 7504 – 9 70 91-0

##### Phone / Fax / Email:

+49 (0)7504-970 91-0 / +49 (0)7504-970 91-20 / E-Mail: info@aldente.de

#### 1.4 Emergency Telephone Number:

+49 (0) 171 7508 130

### Section 2: Hazards identification:

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

Classification according to regulation (EC) no. 1272/2008 (CLP)  
Flammable liquids (chapter 2.6), category 2 (Flam. Liq. 2), H225,  
Eye irritation (chapter 3.3), category 2 (Eye Irrit. 2), H319,  
For the full text of the H-statements mentioned in this section, see section 16.

#### 2.2 Label Elements

##### Labelling according to regulation (EC) no. 1272/2008 (CLP/ GHS)

Hazard pictograms:

## Safety data sheet in accordance with regulation (EC) no. 1907/2006 (amended by regulation (EU) Nr. 453/2010)

Date of issue: 23.04.2015

Aqua Spacer THINNER – thinner for water  
removable die spacer / - CAD/CAM spacer  
03-4170

Date of revision: 22.01.16

Valid from: 01.01.15

Version: 3

Replaces version: 2



**Signal word / hazard designation:** danger (Flam.Liq. 2), warning (Eye Irrit. 2)

**Hazardous component(s) for labelling:** contains ethanol

Reduced labelling ( $\leq 125$  ml) (according to exemptions from the packaging and labelling regulations according to EC-CLP-

regulation) Signal word: danger hazard pictograms:



**Hazard statements:**

H225: Highly flammable liquid and vapour.  
H319: Causes serious eye irritation.  
H336: May cause drowsiness and dizziness

**Precautionary statements:**

P210: Keep away from heat/sparks/open flames/hot surfaces. — No smoking.  
P233: Keep container tightly closed.  
P102: Keep out of reach of children.  
P305+ P351+ P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
P261: Avoid breathing dust / fume.

**Supplemental Hazard information (EU):**

EUH066: Repeated exposure may cause skin dryness or cracking.

### 2.3 Other Hazards:

No supplementary information available.

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

### 3.1 Substances

Principal component of the substance:

Substance name: Ethanol This substance does not meet the PBT or vPvB criteria according to the regulation (EC) no. 1907/2006, annex XIII.

Index-no.: 603-002-00-5

EG-no.: 200-578-6

CAS-no.: 64-17-5

Impurities, stabilizers:

Substance name: Isopropanol (0-7%) This substance does not meet the PBT or vPvB criteria according to the regulation (EC) no. 1907/2006, annex XIII.

Index-no.: 603-117-00-0

EG-no.: 200-661-7

CAS-no.: 67-63-0

Classification according to 1272/2008 (CLP):

Flammable liquids (chapter 2.6), category 2 (Flam. Liq. 2), H225,

Eye irritation (chapter 3.3), category 2 (Eye Irrit. 2), H319,

May cause drowsiness or dizziness (chapter 3.8), category 3 (STOT SE3), H336

## Safety data sheet in accordance with regulation (EC) no. 1907/ 2006 (amended by regulation (EU) Nr. 453/ 2010)

Date of issue: 23.04.2015

Aqua Spacer THINNER – thinner for water  
removable die spacer / - CAD/CAM spacer  
03-4170

Date of revision: 22.01.16

Valid from: 01.01.15

Version: 3

Replaces version: 2

### 3.2 Mixtures not applicable

Description of the mixture:

EG-no.: CAS-no. : Index-Nno.: REACH-registration no.:

Content ration: %

Classification according to regulation (EC) no. 1272/2008 (CLP)

(Full text of H- and EUH-phrases: see SECTION 16)

## Section 4: First aid measures

### 4.1 Description of first aid measures:

In general: take off contaminated clothing

#### Following inhalation:

In case of dizziness after inhalation of vapors, take the person concerned to fresh air.

#### Following skin contact:

Wash affected skin thoroughly with water and soap.

#### Following eye contact:

Rinse eyes with current water for at least 10 minutes. If eye irritation persists consult a doctor.

#### Following ingestion:

Rinse mouth. If discomfort persists consult a doctor.

### 4.2 Most important symptoms and effects, both acute and delayed

Irritant effects, drowsiness, nausea, vomiting, headache, dizziness.

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

Notes for the doctor: not determined

Special treatment: not determined

## Section 5: Firefighting measures

### 5.1 Extinguishing media

Suitable: dry powder, foam, sand

Unsuitable: water

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

Flammable. An incomplete combustion may result in toxic components within the flue gas. In case of fire a respiratory equipment working independently from its ambient environment is recommended for the fire fighters.

### 5.3 Advice for fire-fighters

In case of fire a respiratory equipment working independently from its ambient environment is recommended for the fire fighters.

## Section 6: Accidental release measures

### 6.1 Personal precautions, protective equipment and emergency procedures

#### For non-emergency personnel

Remove all sources of ignition immediately. Ensure good ventilation. Do not inhale fume or spray.

#### For emergency responders

##### Personal protective equipment:

respiratory equipment working independently from its ambient environment

## Safety data sheet in accordance with regulation (EC) no. 1907/ 2006 (amended by regulation (EU) Nr. 453/ 2010)

Date of issue: 23.04.2015

Aqua Spacer THINNER – thinner for water  
removable die spacer / - CAD/CAM spacer  
03-4170

Date of revision: 22.01.16

Valid from: 01.01.15

Version: 3

Replaces version: 2

### 6.2 Environmental precautions

Prevent the liquids from ingressing into surface water or drains.

### 6.3 Methods and material for containment and cleaning up

Wear safety equipment, absorb with liquid binding material (sand, universal binding material) and dispose of as hazardous material.

### 6.4 Reference to other sections

Dangerous combustion products: see section 5. Personal protective equipment: see section 8.

## Section 7: Handling and storage

### 7.1 Precautions for safe handling

#### Fire preventions:

Provide adequate ventilation. Keep away from sources of ignition – don't smoke!



#### Aerosol and dust generation preventions:

Not determined

#### Environmental precautions:

Do not allow to reach the drain system

#### Advice on general occupational hygiene:

Follow the advice on general occupational hygiene, when dealing with chemicals, keep away from food, don't smoke.

### 7.2 Conditions for safe storage, including any incompatibilities

#### Storage conditions

Store under 30°C, tightly closed. Keep away from food.

#### Requirements for storage rooms and vessels

According to TRGS 510, annex 9, regulation for small quantities

Storage class: (LGK) (VCI) 3

### 7.3 Specific end uses

#### Sector specific guidelines: dental laboratories

Except for the applications mentioned in section 1.2 there are no other specific end applications provided.

## Section 8: Exposure controls / personal protection

### 8.1 Control parameters

#### Occupational exposure limits

Substance: Ethanol ; CAS-no. : 64-17-5

Specification : TRGS 905/TRGS 900

Limit value type (country of origin) : (AGW): 960 mg/m<sup>3</sup> bzw. 500 ml/m<sup>3</sup> (ppm)

Peak limitation: Exceedance factor (ÜF) 2, category for short term values II

Toxic to reproduction: A risk of foetal damage is ceased to fear when observing the MAK / BAT values.

Source (TRGS) Not determined

Substance: Isopropanol ; CAS-Nr. : 67-63-0

## Safety data sheet in accordance with regulation (EC) no. 1907/ 2006 (amended by regulation (EU) Nr. 453/ 2010)

Date of issue: 23.04.2015

Aqua Spacer THINNER – thinner for water  
removable die spacer / - CAD/CAM spacer  
03-4170

Date of revision: 22.01.16

Valid from: 01.01.15

Version: 3

Replaces version: 2

Specification:	TRGS 900
Limit value type (country of origin) :	200 ml/m <sup>3</sup> / 500 mg/m <sup>3</sup>
Peak limitation:	Exceedance factor category II – substances with resorptive effect
Toxic to reproduction:	A risk of foetal damage is ceased to fear when observing the MAK / BAT values.
Source (TRGS)	Not determined

### 8.2 Exposure controls

#### Appropriate engineering controls

#### Personal protective equipment

##### Eye / face protection



Wear tight fitting goggles

##### Skin protection

###### Hand protection

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

Full contact:

Gloves made of butyl rubber.

Layer thickness:  $\geq 0,7$  mm

Penetration time:  $\geq 60$  min



Splash contact:

Gloves made of nitrile rubber

Layer thickness: 0,40 mm

Penetration time:  $< 120$  min.

###### Body protection

Wear adequate working clothes.

###### Respiratory protection

Generally there are no special measures to be taken. In case of release of a more important quantity (drained off bottle) provide for sufficient ventilation.

###### Thermal hazards

Not applicable if not stored over 45°C for a longer space of time.

###### Environmental exposure controls

Not determined

### Section 9: Physical and chemical properties

## Safety data sheet in accordance with regulation (EC) no. 1907/ 2006 (amended by regulation (EU) Nr. 453/ 2010)

Date of issue: 23.04.2015

Aqua Spacer THINNER – thinner for water  
removable die spacer / - CAD/CAM spacer  
03-4170

Date of revision: 22.01.16

Valid from: 01.01.15

Version: 3

Replaces version: 2

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

Physical state:	
- Aggregate state:	Liquid
- colour :	Transparent
Odour :	Characteristic
Odour threshold :	No data available
pH-value:	Not determined
Melting point / freezing point :	-114 °C
Initial boiling point/boiling range :	78 °C
Flash point:	29 °C
Evaporation rate :	No data available
Flammability:	Not determined
Upper/lower explosive limits	Not classified as being explosive
Vapour pressure :	59 hPa when 20 °C
Vapour density:	No data available
Relative density:	n.b.
Solubility:	Unlimited miscibility
Partition coefficient:	n.b.
n-octanol/water:	
Auto-ignition temperature:	425 °C
Decomposition temperature:	No data available
Viscosity:	n.b.
explosive properties:	Not classified as explosive
Oxidising properties:	none

### 9.2 Other information

#### Physical hazards

**Explosives** There are no further data available

## Section 10: Stability and reactivity

### 10.1 Reactivity:

Risk of ignition

### 10.2 Chemical stability:

Under standard ambient conditions the material is chemically stable.

### 10.3 Possibility of hazardous reactions:

Not determined

### 10.4 Conditions to avoid:

Storing for a longer space of time over 45°C.

### 10.5 Incompatible materials:

Strong oxidants

### 10.6 Hazardous decomposition products:

None when storing at room temperature.

## Section 11: Toxicological information

## Safety data sheet in accordance with regulation (EC) no. 1907/ 2006 (amended by regulation (EU) Nr. 453/ 2010)

Date of issue: 23.04.2015

Aqua Spacer THINNER – thinner for water  
removable die spacer / - CAD/CAM spacer  
03-4170

Date of revision: 22.01.16

Valid from: 01.01.15

Version: 3

Replaces version: 2

### 11.1 Information on toxicological effects

#### Acute toxicity

LD50 rat: 10.470 mg/kg

OECD test guideline 401

Symptoms: slight irritation of mucous membrane

#### Skin irritation

Result rabbit: no skin irritation

OECD test guideline 404

Repeated or prolonged exposure may cause skin irritation and dermatitis due to degreasing properties of the product (EUH066)

#### Eye irritation

Result rabbit: eye irritation

OECD test guideline 405

Causes serious eye irritation (H319)

#### Sensitisation to the respiratory tract / skin

Test on sensitisation (Magnusson und Kligman):

Result: negative

Germ cell mutagenicity

Genotoxicity in vitro

Ames test Salmonella typhimurium

Result: negative

Method: OECD test guideline 471

Carcinogenicity

No information available

Reproductive toxicity

No information available

#### Specific target organ toxicity (single exposure)

No information available

#### Specific target organ toxicity (repeated exposure)

No information available

#### Aspiration hazard

No information available

#### Symptoms related to the physical, chemical and toxicological characteristics:

In case of ingestion: after a resorption of immense quantities: dizziness, rapture, anesthesia.

In case of skin contact: dryness

In case of inhalation: euphoria

In case of eye contact: irritation

Follow the usual instructions when dealing with chemicals.

### Section 12: Ecological information

#### 12.1 Toxicity

The product is slightly hazardous to water (water pollution class I). The hazard presented by this product in a container of 20 ml can be neglected.

#### 12.2 Persistence and degradability

Biodegradability 94 %

OECD test guideline 301E

Easily biodegradable.

## Safety data sheet in accordance with regulation (EC) no. 1907/2006 (amended by regulation (EU) Nr. 453/2010)

Date of issue: 23.04.2015

Aqua Spacer THINNER – thinner for water  
removable die spacer / - CAD/CAM spacer  
03-4170

Date of revision: 22.01.16

Valid from: 01.01.15

Version: 3

Replaces version: 2

---

### 12.3 Bioaccumulative potential

Bioaccumulation is not to be expected.

### 12.4 Mobility in soil

No information available

### 12.5 Results of PBT- and vPvB assessment

This substance does not meet the PBT or vPvB criteria according to the regulation (EC) no. 1907/2006, annex XIII.

### 12.6 Other adverse effects

No environmental problems can be expected when handled and used properly. Leakage into the environment is to be prevented.

---

## Section 13: Disposal considerations

### 13.1 Waste treatment methods

#### Contaminated packaging disposal

Containers are to be treated as the product itself. 150110 (AVV)

#### Waste codes / waste designations according to EWC / AVV:

160506 (AVV)

#### Special precautions

none

#### Other relevant provisions for waste treatment national or EC

Waste directive 2008/98/EC has to be observed.

---

## Section 14: Transport information

### 14.1 UN-no.

UN 1170

### 14.2 UN proper shipping name

ADR/ RID

Ethanol

IMDG-Code / ICAO-TI / IATA-DGR

Ethanol

EmS F-E S-D

### 14.3 Transport hazard class(es) / hazard labels

Class 3

### 14.4 Packing group

II

### 14.5 Environmental hazards



## Safety data sheet in accordance with regulation (EC) no. 1907/ 2006 (amended by regulation (EU) Nr. 453/ 2010)

Date of issue: 23.04.2015

Aqua Spacer THINNER – thinner for water  
removable die spacer / - CAD/CAM spacer  
03-4170

Date of revision: 22.01.16

Valid from: 01.01.15

Version: 3

Replaces version: 2

### Environmentally hazardous substance marking

ADR/RID / IMDG-Code / ICAO-TI / IATA-DGR:  yes / XXX no

Marine Pollutant:  yes / XXX no

### 14.6 Special precautions for user

Do not expose to sources of ignition. Beware of inflammable materials.

### 14.7 Transport in bulk according to Annex II of MARPOL 73/ 78 and the IBC Code

Pollution category (X, Y or Z) :

Type of ship (1, 2 or 3) : not relevant

## Section 15: Regulatory information

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

#### EU-regulations, e.g.:

Directive / EC) no. 2037/ 2000 (substances that deplete the ozone layer): Not regulated

Directive (EC) no. 850/ 2004 (persistent organic pollutants): Not regulated

Directive (EC) no. 689/ 2008 (export and import of dangerous chemicals): Not regulated

Directive (EC) no. 648/ 2004 (detergent regulation): Not regulated

#### Restrictions in accordance with title VIII of the regulation (EC) no. 1907/ 2006:

This product does not contain any ingredients of very high concern according to REACH EC no. 1907/2006, Art. 57 low concentration limit of  $\geq 0,1 \%$  (w/w).

#### National regulations, e.g.:

Water hazard class: 1

#### Technical instructions on Air Quality Control (TA-Luft)

Not regulated

#### Other relevant regulations

##### Leaflet BG-Chemie

M004 irritant materials

M050 tasks with hazardous materials

TRGS 900

Ethanol (64-17-5) AGW: 500 ppm 960 mg/m<sup>3</sup> peak limit value 2 if one meets the AGW- und BGW values no risk of reproductional damage is to be expected (see no. 8.1).

### 15.2 Chemical safety assessment

No chemical safety assessment has been performed on this substance.

## Section 16: Other information

### Indication of changes

## Safety data sheet in accordance with regulation (EC) no. 1907/ 2006 (amended by regulation (EU) Nr. 453/ 2010)

Date of issue: 23.04.2015

Aqua Spacer THINNER – thinner for water  
removable die spacer / - CAD/CAM spacer  
03-4170

Date of revision: 22.01.16

Valid from: 01.01.15

Version: 3

Replaces version: 2

---

Adaption to the classification and labelling according to directive (EC) no. 1272/2008  
Section 1: Emergency phone number.

### Abbreviations and acronyms

n.a. Not applicable

### Key literature references and sources for data

Gestis substance data base - <http://gestis.itrust.de/>  
Federal Agency for Industrial Health and Safety – [www.baua.de](http://www.baua.de)

### Classification for mixtures and used evaluation method according to regulation (EC) 1207/ 2008 [CLP]:

#### Relevant R-, H- and EUH-phrases (number and full text):

##### Hazard statements:

H225: Highly flammable liquid and vapour.  
H319: Causes serious eye irritation.  
H336: May cause drowsiness and dizziness

##### Precautionary statements:

P210: Keep away from heat/sparks/open flames/hot surfaces. — No smoking.  
P233: Keep container tightly closed.  
P102: Keep out of reach of children.  
P305+ P351+ P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
P261: Avoid breathing dust / fume.

##### Supplemental Hazard information (EU):

EUH066: Repeated exposure may cause skin dryness or cracking.

#### Training advice

Provide adequate information, instruction and training for operators / technicians using this product.

#### Further information

This information is based on our present state of knowledge. It should therefore not be construed as guaranteeing specific properties of the products described or their suitability for a particular application. We do not take any responsibility for possible sources of errors or sufficiency of this document. The user of the product accepts the sole responsibility to adhere to all herein mentioned regulations. It is the user's obligation to read this document carefully.