

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

Date of issue: 23.04.2015  
Date of revision : 22.01.16  
Valid from : 01.01.15  
Version: 3

Pro-Die Spacer  
Pro-Die Hardener  
Chameo Die-Spacer  
Pro Seal Wax Sealing

Replaces version: 2

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

### 1.1 Product Identifier

Substances: Ethylacetate / Die Spacers + Die Hardener / Pro-Seal Wax Sealing  
03-2000, 03-2040, 03-2060, 03-2070, 03-2090, 03-2100 //03-2020 /03-1980// 03-2300  
Index-no.: 607-022-00-5  
EC-no.: 205-500-4  
CAS-no.: 141-78-6  
REACH-registration no.: void

**Other means or identification:** not determined

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

Relevant identified uses: SU 20 health care, sealing of plaster dies, wax sealing: dental field –(dental labs).

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:**

Borsigstr. 1

**Address / zip-code / town:**

D-38644 Goslar

**Information contact:**

+49 (0) 5321-80031

**Phone / Fax / Email:**

+49 (0)5321-80031 / +49 (0)5321-50881 / E-Mail: info@aldente.de

### 1.4 Emergency Telephone Number:

+49 (0) 171 8637790

## 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,  
Specific target Organ Systemic Toxicity (single exposure), (chapter 3.8), category 3, (May cause drowsiness or  
dizziness) (STOT SE 3) H336  
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:** GHS02, GHS07



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**Signal word:** Danger (Flam.Liq. 2), Warning (Skin Irrit. 2)

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

regulation) Signal word: danger hazard pictograms:



## **Hazardous component(s) for labelling:**

Contains Ethylacetate

## **Hazard statements:**

H225: Highly flammable liquid  
H 319: May cause serious eye irritation  
H 336: May cause drowsiness or dizziness

## **Precautionary statements:**

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

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

EUH066: Repeated exposure may cause skin dryness or cracking.

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

## **2.3 Other Hazards:**

No supplementary information available.

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

### **3.1 Substances**

Principal component of the substance:

Substance name: Ethylacetate  
Index-no.: 607-022-00-5  
EG-no.: 205-500-4  
CAS-no.: 141-78-6

Hazard pictograms: GHS02, GHS07



**Signal word:** Danger (Flam.Liq. 2), Warning (Skin Irrit. 2)

Classification according to regulation (EC) no. 1272/2008 (CLP)  
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Chemical Identifier (concentration) Ethylacetate (<= 100 % )  
This substance does not meet the PBT or vPvB criteria according to the regulation (EC) no. 1907/2006, annex XIII.  
CAS-No.: 141-78-6  
EC-No.: 205-500-4  
Registration no: 01-2119475103-46-XXXX

Impurities, stabilizers:

Substance name: solution of auxiliary additives, bonding agents and pigments depending on the type of spacer

Index-no.: not applicable

EC-no.: not applicable

CAS-no.: not applicable

## 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 persist consult a doctor.

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

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

### **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.

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## 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

### 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

No particular measures are necessary when used properly.

#### Fire preventions:

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



#### Aerosol and dust generation preventions:

Not determined

#### Environmental precautions:

Prevent the liquids from ingressing into surface water or drains.

#### 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.

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## Section 8: Exposure controls / personal protection

### 8.1 Control parameters

#### Occupational exposure limits

Substance: Ethylacetate ; CAS-no. 141-78-6  
Specification : TRGS 900 exposure limits  
Limit value type (country of origin) : 400 ml/m<sup>3</sup>  
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

### 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 specific 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.

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## Environmental exposure controls

Not determined

## Section 9: Physical and chemical properties

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

Physical state:

Aggregate state: liquid

colour : transparent resp. colors according to the type  
of spacer / liquid

Odour : specific according to product

Odour threshold : 0,1 - 181,5 ppm

pH-value: not determined

Melting point / freezing point :

-83°C

Initial boiling point/boiling range :

75-77°C

Flash point: -4°C

Evaporation rate : not determined

Flammability: not determined

Upper/lower explosive limits: 11,5 %(V) - 2,1 %(V)

Vapour pressure : not determined

Vapour density: not determined

Relative density: not determined

Solubility: 79 g/l

Partition coefficient: not determined

n-octanol/water: not determined

Auto-ignition temperature: not determined

Decomposition temperature: not determined

Viscosity: not determined

explosive properties: considered as being non-explosive

Oxidising properties: not determined

### Other information

### 9.2

#### Physical hazards

**Explosives** There are no further data available

## Section 10: Stability and reactivity

### 10.1 Reactivity:

not determined

### 10.2 Chemical stability:

Under standard ambient conditions the material is chemically stable.

### 10.3 Possibility of hazardous reactions:

Contact with strongly oxidizing agents

### 10.4 Conditions to avoid:

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

### 10.5 Incompatible materials: oxidizing agents

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## 10.6 Hazardous decomposition products:

Not applicable

## Section 11: Toxicological information

### 11.1 Information on toxicological effects

#### **Acute toxicity**

Oral LD<sub>50</sub> 7060 mg/kg (Rat) (TOXNET)  
Inhalative LC<sub>50</sub>/4 h 95,6 mg/l (Rat) (IUCLID)

#### **Skin irritation**

Absorption of acute toxics exclusively through skin contact is considered as being quite unlikely.  
Repeated or prolonged exposure may cause skin irritation and dermatitis due to degreasing properties of the product (EUH066)

#### **Eye irritation**

Result rabbit: weak eye irritation effect  
OECD test guideline 405  
May cause serious eye irritation (H319)

#### **Sensitisation to the respiratory tract / skin**

After inhalation: slight irritation

#### **Germ cell mutagenicity**

No known significant effects or critical hazards.

#### **Carcinogenicity**

No known significant effects or critical hazards.

#### **Reproductive toxicity**

No known significant effects or critical hazards.  
Specific target organ toxicity (single exposure): dizziness and sleepiness possible

Specific target organ toxicity (repeated exposure): The substance is not classified on organ toxicity on repeated exposure (see single exposure).

#### **Aspiration hazard**

No information available.

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

In case of ingestion: no information available  
In case of skin contact: frequent contact: dryness  
In case of inhalation: no information available  
In case of eye contact: no information available

## Section 12: Ecological information

### 12.1 Toxicity

#### **Aquatic toxicity / fish toxicity:**

LC<sub>50</sub> 8140 mg/l/96 h (Leuciscus idus (Goldorfe)) (IUCLID)

#### **Daphnia toxicity:**

EC50 >9000 - <15000 mg/l/48 h (Daphnia magna) (IUCLID)

#### **Algal toxicity:**

IC5 5000 mg/l (Scenedesmus quadricauda) (Lit.)

#### **Bacterial toxicity:**

EC5 6500 mg/l (Pseudomonas putida) (IUCLID) 16h

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## 12.2 Persistence and degradability

Biodegradability 94 %  
OECD test guideline 301E  
Easily biodegradable.

## 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

Not applicable

## 12.6 Other adverse effects

No further relevant information available.

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## **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)

The product is to be considered as special waste and has to be disposed of according to the national and regional regulations (varnishes).

**Special precautions:** not applicable

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

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

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## **Section 14: Transport information**

**14.1 UN-no.** 1173

### 14.2 UN proper shipping name

**ADR/RID:** Ethylacetate

**IMDG-Code / ICAO-TI / IATA-DGR:** Ethylacetate

**14.3 Transport hazard class(es) / hazard labels:** 3

**14.4 Packing group:** II



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## 14.5 Environmental hazards

### Environmentally hazardous substance marking

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

Marine Pollutant:  yes / **XXX no** slightly hazardous to waters

EMS-Code: F-E,S-D

## 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) : not applicable, package size: 20 ml

Type of ship (1, 2 or 3) : not applicable, package size: 20 ml

## 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 applicable

Directive / EC no. 850/2004 (persistent organic pollutants): not applicable

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

Directive / EC no. 648/2004 (detergent regulation): not applicable

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

Water hazard class: 1

Technical instructions on Air Quality Control (TA-Luft): not applicable

#### Other relevant regulations

Not applicable

### 15.2 Chemical safety assessment

No chemical safety assessment has been performed on this substance.

## Section 16: Other information

### Indication of changes

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)

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## 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.

### 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.