

## Safety data sheet in accordance with 91/155/EEC

**Date of issue:** 01.12.2011 Instant adhesives  
**Date of revision :** 02.02.2012 Universal  
**Valid from:** 01.12.2011 Kapillar  
**Version:** 11 **Replaces Version:** 09 Rational

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### 1. Identification of the substance and of the company

#### 1.1 Product details

Tradename: Sekundenkleber Universal + Kapillar, Sekundenkleber Rational  
CAS-No.: 7085-85-0  
REACH-Registration No.: not applicable  
EINECS: 230-391-5  
Indes-No. 607-236-00-9

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

For exclusive use in dental labs.

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

**Supplier / Company name:**

al dente Dentalprodukte GmbH

**Street:**

Am Tobel 15

**Postal Zip-Code / City:**

D-88263 Horgenzell

**Contact for technical information**

+49 (0) 7504 – 9 70 91-0

**Phone / Fax / E-Mail**

07504-9 70 91-0 / 07504-9 70 91-20 / E-Mail: info@aldente.de

#### 1.4 Emergency phone number:

Giftnotruf-Zentrale Baden-Württemberg +49 761-19240

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### 2. Hazards identification

#### 2.1 Information on hazards

Pictogram:



irritant

#### 2.2 Special hazard notes for people and environment

There is a labelling obligation for this product due to the analysis of the "General Classification Guideline for preparations of the EU" in its latest version.

R36/37/38 Irritating to skin, to respiratory system and to skin.

Cyanacrylate. Danger. Bonds skin and eyelids within seconds. Keep out of reach of children.

**Classification system:**

The classification corresponds to the current EG-lists, but is also amended by specialist literature and information from the company itself.

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### 3. Composition/information on ingredients:

#### 3.1 Substances

Main components of the substance:

Substance name: Ethyl-2-cyanacrylate  
Index-No.: 607-236-00-9  
EINECS: 230-391-5  
CAS-Nr.: 7085-85-0 Xi; R 36/37/38 ≥ 30%

Additional notes: Full text of the mentioned hazard notes can be read in chapter 16.

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### 4. First aid measures

**4.1 Description of first aid measures:** Remove any piece of clothing immediately when contaminated with the product.

**Following inhalation:** provide fresh air, if necessary kiss of life, keep the body warm. In case of negative symptoms, consult a doctor. In case of loss of consciousness, keep the person in recovery position.

**Following skin contact:** rinse immediately with a lot of water and soap. If necessary consult a doctor.

**Following eye contact:** rinse immediately with a lot of water and consult a doctor.

**Following ingestion:** rinse mouth and drink a lot of water. If swallowed do not induce vomiting. Immediately consult a doctor showing the product's package or labelling.

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### 5. Firefighting measures

#### 5.1 Extinguishing media

Suitable: CO<sub>2</sub>, extinguishing powder or spray jet. Fight bigger fires with spray jet or alcohol-resistant foam

Not suitable: water in full jet.

#### 5.2 Special hazards arising from the mixture

When heating or in case of fire, accumulation of toxic gases are possible. In case of fire may evaporate: nitric oxides (NO<sub>x</sub>), carbon monoxide, carbon dioxide – danger of accumulation of toxic pyrolysis products. Under certain circumstances of fire, traces of other toxic substances cannot be excluded.

#### 5.3 Advice for firefighters

Special protective equipment: protective respirator independent from ambient air. Do not inhale gases from explosion and fire.

#### 5.4 Further information:

Cool endangered containers with water spray jet. Eliminate residues of fire and contaminated water according to legal directions.

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### 6. Accidental release measures

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

Provide sufficient ventilation, avoid contact with skin and eyes.

#### 6.2 Environmental precautions

Prevent contamination of soil and water. If contamination cannot be prevented, inform the corresponding public authorities.

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

Provide sufficient ventilation.

Collect with liquid absorbing materials (e.g. sand, antacid, universal absorbents). Dispose of the absorbed material according to directives.

#### 6.4 Reference to other sections

Information on safe handling see chapter 7

Information on personal protective equipment see chapter 8

Information on "dangerous reaction" see chapter 10

Information on disposal see chapter 13.

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### 7. Handling and storage

#### 7.1 Precautions for safe handling

##### Advice for safe handling:

Provide sufficient ventilation / aspiration at the working place.

Provide sufficient ventilation also on bottom areas (vapors are heavier than air).

##### Fire preventions

Keep away from fire – do not smoke.

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

##### Storage conditions

##### Requirements for storage rooms and vessels

Store in well closed boxes cool and dry.

Keep away from children.

Keep away from heat and direct sun. Do not store but in original containers.

**storage class:** Notice on storage alongside other materials not necessary.

#### 7.3 Specific end uses

##### Industrial sector specific solutions

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### 8. Exposure controls / personal protection

#### 8.1 Control parameters

##### 8.1.1 Occupational exposure limits

Substance name: CAS-No. : 7085-85-0 Ethyle-2-cyanacrylate

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Specification : MAK (Germany) compare chapter IIb

### 8.1.2 Additional information:

Background for issuing this SDS were the lists valid.

Provide a well ventilated working place. In dry atmospheres the humidity is to be increased up to 50-60% at least.

### 8.2 Exposure controls

In general: The current precautionary measures when dealing with chemicals are to be observed.

Keep away from food, drink and animal feeding stuffs.

Contaminated clothes are to be taken off immediately.

Wash your hands before breaks and at the end of work. Do not inhale gases/dust/aerosols.

Avoid any contact with skin and eyes.

### 8.2.1 Individual protective equipment

#### Eye- / face protection

Safety glasses

#### Hand protection

##### Gloves

Safety gloves (EN 374)

Gloves' material: use stable material (e.g. nitrile). Check safety gloves before every use on their proper condition. The material has to be impermeable and indestructible against the product / material / mixture. Chose gloves' material under consideration of the penetration time, permeation rate and the degradation.

**Gloves' material:** The selection of suitable gloves does not only depend on the material, but also on other quality features and can be different in between the various manufacturers. Since the product is a mixture made of several materials, the resistance of gloves' materials cannot be forecasted and therefore has to be verified before use.

**Permeation times of the gloves:** The exact permeation time can be obtained from the manufacturer and has to be observed.

**Not suitable** are gloves made of the following material: cloth

#### Eye protection

Safety glasses

#### Respiratory protection

In case of insufficient ventilation: respiratory protection. Filter A (EN 141)

## 9. Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

Appearance

- Aggregate state:	Fluid
- Colour :	transparent
Odour:	irritant

Viscosity dynamic at 25°C :	70-120 mPas (Univesal) // 1-10 mPas (Kapillar)
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Solubility :	hydrolyzed
Melting / congelation point :	n.b.
Flash point:	n.b.
Flammability:	> 80°C
Spontaneous ignition :	The product is not self-inflammable
Danger of explosion:	The product is not potentially explosive
Density:	1,06 g/cm <sup>3</sup> (DIN 51757)

### 10. Stability and reactivity

#### 10.1 Thermal decomposition / conditions to be avoided:

Protect from heat and direct sun.

#### 10.2 Possibility of hazardous reactions

Polymerization under heat generation. Reactions with alcohols, aminos, liquid acids and bases.

#### 10.3 Hazardous decomposition products:

When stored in accordance with regulations, there are no hazardous decomposition products to be expected.

### 11. Toxicological information

#### 11.1 Information on toxicological effects

##### Toxicity

**Corrosivity and irritation on skin:** irritates the skin and mucous membranes

**Irritation on eyes:** irritation

**Sensitisation:** no sensitising effects known

**Additional toxicological notes:** The product shows the following hazards according to the analyses of the general classification guideline of the EC in its last valid version.

**There are no experimentally determined data of toxicity available for this product / mixture.**

### 12. Ecological information

#### 12.1 In general: Water pollution class 1 (self-classification (VwVwS, affix 4)): slightly dangerous for waters.

Do not allow product to reach sewage system or waters.

### 13. Disposal considerations

#### 13.1 Waste treatment methods: According to the administrative directives.

**EC regulations or others:** European waste catalogue

08 00 00 wastes from HZVA of coatings (colours, alquers, enamel), adhesives, gasket material and printer's ink

08 04 00 wastes from HZVA of adhesives and gasket materials (incl. water protective materials)

08 04 09\* waste from adhesives and gasket materials, containing organic solvents or other hazardous materials.

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### 13.2 Contaminated packings

Elimination according to the administrative regulations.

European waste catalogue:

15 01 00: wast packaging, absorbants, wiping cloths, filter materials and protective clothing

15 01 10: Packaging containing residues of hazardous materials or contaminated packaging

## 14. Transport information

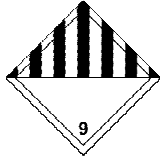
**14.1 UN-No.** 3334

### 14.2 UN-transport denomination

Land transport ADR/RID class: -----

Sea transport: IMDG-Code / GGVSee class: -----

### ICAO-TI and IATA-DGR



ICAO/IATA-class:	9
UN/ID-No.	3334
Label:	9
Packing group:	----
Correct technical denomination:	Aviation Regulated Liquid, N.O.S. (Cyanacrylate ester)

## 15. Regulatory information

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

#### Identification marking according to EU-regulations:

The product is classified and marked according to the EU regulations/GefStoffV.

#### Code letter and hazard information on the product:



Xi Irritant

#### R-phrases:

36/37/38 Irritating to eyes, the respiratory system and skin.

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### S-phrases:

23 Do not breathe vapour  
24/25 Avoid contact with skin and eyes  
26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice  
46 If swallowed, seek medical advice immediately and show label of the product.  
56 Dispose of this product and its container at hazardous or special waste collection point

### Special identification marking of certain mixtures

Cyanacrylat. Danger. Bonds skin and eyelids within seconds. Keep away from children.

### National directives

#### Water pollution class

WGK 1 (Self-declaration (VwVwS, appendix 4)): slightly pollutant

#### Classification according to industrial safety regulations (BetrSichV):

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#### Information sheet BG-Chemistry:

M 004 „Irritant mixtures / Acid mixtures“

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## 16. Other information

### Abbreviations:

n.b. Not indicated  
n.a. Not applicable

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.

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