

Safety Data Sheet according to Regulation (EU) 2020/878

Date of issue: 30.07.2021
Revision date: -
Effective from: 30.07.2021
Version: 1

Instant adhesive Universal 03-1000, 03-1010
Instant adhesive Capillary 03-1020, 03-1030
Instant adhesive Rational 03-1080, 03-1090

Replaced version: -

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

1.1. Product identifier

Substance name/ Trade name: ethyl 2-cyanoacrylate / Instant adhesive Universal, Capillary, Rational
EC index no: 607-236-00-9
EC no: 230-391-5
CAS no: 7085-85-0

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

Instant glue for exclusive use in the dental laboratory

1.3. Details of the supplier of the safety data sheet

Manufacturer/Supplier

al dente Dentalprodukte GmbH

Street / mailbox:

Borsigstr. 1

Country code / postal code / city:

D-38644 Goslar

Contact for technical information

+49 (0) 5321-80031

Phone / Fax / E-mail

+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]

Skin corrosion/irritation, Category 2, H315

Serious eye damage/eye irritation, Category 2, H319

Specific target organ toxicity — Single exposure, Category 3, Respiratory tract irritation, H335

Full text of H statements: see section 16.

Adverse physicochemical, human health and environmental effects

Causes skin irritation. Causes serious eye irritation. May cause respiratory irritation.

2.2. Label elements

Labelling according to Regulation (EC) No. 1272/2008 [CLP]

Hazard pictograms (CLP) :



GHS02

Signal word (CLP) : Warning

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Hazard statements (CLP)	: H315 - Causes skin irritation H319 - Causes serious eye irritation H335 - May cause respiratory irritation
Precautionary statements (CLP)	: P261 - Avoid breathing vapours P280 - Wear protective gloves, eye protection P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing
EUH phrases	: EUH202 - Cyanoacrylate. Danger. Bonds skin and eyes in seconds. Keep out of the reach of children

2.3. Other hazards

Results of PBT and vPvB assessment:
PBT: Not applicable.
vPvB: Not applicable.

SECTION 3: Composition/information on ingredients

3.1. Substances

Main constituent of the substance:
Name: Ethyl 2-cyanoacrylate
EC index no: 607-236-00-9
EC no: 230-391-5
CAS no: 7085-85-0

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
Ethyl 2-cyanoacrylate	(CAS no) 7085-85-0 (EC no) 230-391-5 (EC index no) 607-236-00-9	≤ 100	Skin Irrit. 2, H315 Eye Irrit. 2, H319 STOT SE 3, H335

Name	Product identifier	Specific concentration limits
Ethyl 2-cyanoacrylate	(CAS no) 7085-85-0 (EC no) 230-391-5 (EC index no) 607-236-00-9	(C ≥ 10 %) STOT SE 3, H335

Full text of H statements: see section 16.

3.2. Mixtures

Not applicable

SECTION 4: First aid measures

4.1. Description of first aid measures

General measures: Call a doctor if you feel unwell. If possible show him this sheet. Failing this, show him the packaging or label. Never give anything by mouth to an unconscious person. Place the affected person in the recovery position.

After inhalation: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical advice/attention if you feel unwell.

After skin contact: Take off contaminated clothing. Wash with plenty of soap and water. If skin irritation occurs: Get medical advice/attention.

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After eye contact: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.

After ingestion: Rinse mouth. Drink water as a precaution. Do NOT induce vomiting.

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

Symptoms/injuries after inhalation: May cause respiratory irritation.

Symptoms/injuries after skin contact: Causes skin irritation.

Symptoms/injuries after eye contact: Causes serious eye irritation.

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

Treat symptomatically.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media: Carbon dioxide. Dry extinguishing powder. Water spray. For a significant fire: Alcohol resistant foam.

Unsuitable extinguishing media: Do not use a heavy water stream.

5.2. Special hazards arising from the substance or mixture

Hazardous decomposition products in case of fire: Toxic fumes may be released. Carbon monoxide. Carbon dioxide. Nitrogen oxides.

5.3. Advice for firefighters

Firefighting instructions: Use water spray or fog for cooling exposed containers. Prevent fire-fighting water from entering environment.

Protection during firefighting: Use a self-contained breathing apparatus and also a protective suit.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

General measures: Stop leak if safe to do so. Provide adequate ventilation. Avoid contact with skin and eyes. Do not breathe vapour/aerosol.

For non-emergency personnel:

Emergency procedures: Evacuate unnecessary personnel.

For emergency responders:

Protective equipment: Wear personal protective equipment. Use self-contained breathing apparatus.

6.2. Environmental precautions

Prevent entry to sewers and public waters. Notify authorities if product enters sewers or public waters.

6.3. Methods and material for containment and cleaning up

Methods for cleaning up: Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible. Dispose of in accordance with relevant local regulations.

6.4. Reference to other sections

Refer to protective measures listed in sections 7 and 8. Concerning disposal elimination after cleaning, see section 13.

SECTION 7: Handling and storage

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7.1. Precautions for safe handling

Precautions for safe handling: Provide good ventilation in process area to prevent formation of vapour. Remove ignition sources. No smoking. Wear personal protective clothing. Do not breathe vapour/aerosol. Avoid contact with skin and eyes.

Hygiene measures: Handle in accordance with good industrial hygiene and safety procedures. When using do not eat, drink or smoke. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Take off contaminated clothing and wash it before reuse. Contaminated work clothing should not be allowed out of the workplace.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions: Store in original container. Keep container tightly closed. Store in a cool, well-ventilated place. Protect from sunlight. Store locked up.

Prohibitions on mixed storage: Keep away from food, drink and animal feedingstuffs.

7.3. Specific end use(s)

No additional information available

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Ethyl 2-cyanoacrylate (7085-85-0)		
Ireland	Local name	Cyanoacrylates, Ethyl and Methyl
Ireland	OEL (8 hours ref) (ppm)	0.2 ppm
Ireland	OEL (15 minutes ref) (ppm)	1 ppm
United Kingdom	Local name	Ethyl cyanoacrylate
United Kingdom	WEL STEL (ppm)	0.3 ppm
United Kingdom	WEL STEL (mg/m ³)	1.5 mg/m ³

Ethyl 2-cyanoacrylate (7085-85-0)	
DNEL/DMEL (Workers)	
Acute - systemic effects, inhalation	9.25 mg/m ³
Acute - local effects, inhalation	9.25 mg/m ³
Long-term - systemic effects, inhalation	9.25 mg/m ³
Long-term - local effects, inhalation	9.25 mg/m ³
DNEL/DMEL (General population)	
Acute - systemic effects, inhalation	9.25 mg/m ³
Acute - local effects, inhalation	9.25 mg/m ³
Long-term - systemic effects, inhalation	9.25 mg/m ³
Long-term - local effects, inhalation	9.25 mg/m ³

8.2. Exposure controls

Appropriate engineering controls: Provide local exhaust or general room ventilation to minimize vapour concentrations.

Hand protection: Wear suitable gloves (EN 374). Nitrile rubber, ≥ 0.35 mm. The exact breakthrough time has to be found out by the manufacturer of the protective gloves and has to be observed.

Eye protection: Wear safety glasses (EN 166).

Skin and body protection: Wear suitable protective clothing.

Respiratory protection: Use appropriate ventilation. In case of inadequate ventilation wear respiratory protection. Breathing apparatus with filter type A (EN 141).

Environmental exposure controls: Avoid release to the environment.

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SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	: Liquid
Colour	: Colourless
Odour	: Characteristic; Irritating
Melting point/freezing point	: No data available
Boiling point or initial boiling point and boiling range	: No data available
Flammability	: No data available
Lower and upper explosion limit	: No data available
Flash point	: > 80 °C
Auto-ignition temperature	: No data available
Decomposition temperature	: No data available
pH	: No data available
Kinematic viscosity	: No data available
Solubility	: Water: Polymerises on exposure to water (moisture)
Partition coefficient n-octanol/water (log value)	: 0.776 (22 °C)
Vapour pressure	: No data available
Density and/or relative density	: 1.06 g/cm ³ (DIN 51757)
Relative vapour density	: No data available
Particle characteristics	: Not applicable

9.2. Other information

Explosive properties	: Not explosive.
Dynamic viscosity	: 70 – 120 mPas, 25 °C (Universal) 1 – 10 mPas, 25 °C (Kapillar)

SECTION 10: Stability and reactivity

10.1. Reactivity

On contact with water: Polymerization.

10.2. Chemical stability

Stable under use and storage conditions as recommended in section 7.

10.3. Possibility of hazardous reactions

Refer to section 10.1 on Reactivity.

10.4. Conditions to avoid

Heat. Direct sunlight.

10.5. Incompatible materials

Water. Alcohols. Amines. Acids and alkalis.

10.6. Hazardous decomposition products

None under normal use. In case of fire: Toxic fumes may be released. Carbon dioxide. Carbon monoxide. Nitrogen oxides.

SECTION 11: Toxicological information

11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

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Acute toxicity : Not classified
Based on available data, the classification criteria are not met

Ethyl 2-cyanoacrylate (7085-85-0)	
LD50 oral rat	> 5000 mg/kg
LD50 dermal rabbit	> 2000 mg/kg

Skin corrosion/irritation : Causes skin irritation
Serious eye damage/irritation : Causes serious eye irritation
Respiratory or skin sensitisation : Not classified
Based on available data, the classification criteria are not met
Germ cell mutagenicity : Not classified
Based on available data, the classification criteria are not met
Carcinogenicity : Not classified
Based on available data, the classification criteria are not met
Reproductive toxicity : Not classified
Based on available data, the classification criteria are not met
Specific target organ toxicity (single exposure) : May cause respiratory irritation
Specific target organ toxicity (repeated exposure) : Not classified
Based on available data, the classification criteria are not met
Aspiration hazard : Not classified
Based on available data, the classification criteria are not met

11.2. Information on other hazards

Potential adverse human health effects and symptoms : Based on available data, the classification criteria are not met

SECTION 12: Ecological information

12.1. Toxicity

Acute aquatic toxicity : Not classified
Chronic aquatic toxicity : Not classified

12.2. Persistence and degradability

No additional information available.

12.3. Bioaccumulative potential

Ethyl 2-cyanoacrylate (7085-85-0)	
Partition coefficient n-octanol/water (Log Pow)	0.776 (22 °C, EU Method A.8)

12.4. Mobility in soil

No additional information available.

12.5. Results of PBT and vPvB assessment

This substance does not meet the PBT- or vPvB criteria of REACH regulation, annex XIII.

12.6. Endocrine disrupting properties

No additional information available.

12.7. Other adverse effects

No additional information available.

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SECTION 13: Disposal considerations

13.1. Waste treatment methods

Regional legislation (waste)

Dispose in a safe manner in accordance with local/national regulations. The product is to be classified as hazardous waste.

Waste treatment methods

This material and its container must be disposed of in a safe way.

Waste disposal recommendations

Treat contaminated packaging like the product itself.

European List of Waste (LoW) code

Product:

08 00 00 - WASTES FROM THE MANUFACTURE, FORMULATION, SUPPLY AND USE (MFSU) OF COATINGS (PAINTS, VARNISHES AND VITREOUS ENAMELS), ADHESIVES, SEALANTS AND PRINTING INKS

08 04 00 - wastes from MFSU of adhesives and sealants (including waterproofing products)

08 04 09* - waste adhesives and sealants containing organic solvents or other dangerous substances

Packaging:

15 01 00 - packaging (including separately collected municipal packaging waste)

15 01 10* - packaging containing residues of or contaminated by hazardous substances

Waste code

The waste code number according to the Ordinance on the European Waste Catalogue (AVV) depends on the waste producer and can therefore vary for any given product. The waste code number is therefore to be gleaned separately from each waste producer.

SECTION 14: Transport information

In accordance with ADR / IMDG / IATA

14.1. UN number or ID number

UN-No. (ADR) : Not applicable

UN-No. (IMDG) : Not applicable

UN-No. (IATA) : UN 1173

14.2. UN proper shipping name

Proper Shipping Name (IATA) : Aviation regulated liquid, n.o.s. (ethyl 2-cyanoacrylate)

Transport document description (IATA) : UN 3334 Aviation regulated liquid, n.o.s. (ethyl 2-cyanoacrylate), 9, III

14.3. Transport hazard class(es)

IATA

Transport hazard class(es) (IATA) : 9

Hazard labels (IATA) : 9



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14.4. Packing group

Packing group (IATA) : III

14.5. Environmental hazards

Dangerous for the environment : No
Marine pollutant : No
Other information : No supplementary information available

14.6. Special precautions for user

- Air transport

PCA Excepted quantities (IATA) : E1
PCA Limited quantities (IATA) : Y964
PCA limited quantity max net quantity (IATA) : 30 kg G
PCA packing instructions (IATA) : 964
PCA max net quantity (IATA) : 450 L
CAO packing instructions (IATA) : 964
CAO max net quantity (IATA) : 450 L
Special provisions (IATA) : A27
ERG code (IATA) : 9A

14.7. Maritime transport in bulk according to IMO instruments

Not applicable

SECTION 15: Regulatory information

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

EU-Regulations:

Ethyl 2-cyanoacrylate is not on the REACH Annex XIV List
Ethyl 2-cyanoacrylate is not on the REACH Candidate List
Ethyl 2-cyanoacrylate is not subject to Regulation (EU) No. 649/2012 of the European Parliament and of the Council of July 4, 2012 concerning the export and import of hazardous chemicals
Ethyl 2-cyanoacrylate is not subject to Regulation (EU) No. 2019/1021 of the European Parliament and of the Council of June 20, 2019 on persistent organic pollutants
Does not contain any substance subject to Regulation (EU) 2019/1148 of the European Parliament and of the Council of June 20, 2019 on the marketing and use of explosives precursors

National regulations:

No additional information available

15.2. Chemical safety assessment

For this substance, a chemical safety assessment was not carried out.

SECTION 16: Other information

Changes compared to earlier versions

-

Data source

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REGULATION (EC) No 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006

Abbreviations and acronyms:

ADR	: European Agreement concerning the International Carriage of Dangerous Goods by Road
CLP	: Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures
DMEL	: Derived Minimal Effect Level
DNEL	: Derived No-Effect Level
EC50	: The effective concentration of substance that causes 50% of the maximum response (Median Effective Concentration)
IATA	: International Air Transport Association
IMDG	: "International Maritime Dangerous Goods Code" for the transport of dangerous goods by sea
LC50	: Lethal Concentration to 50 % of a test population (Median Lethal Concentration)
LD50	: Lethal Dose to 50% of a test population (Median Lethal Dose)
LOAEL	: No Observed Effect Concentration/Level
NOAEC/L	: Organisation for Economic Cooperation and Development
NOEC/L	: Persistent, Bioaccumulative and Toxic substance
OECD	: Predicted No-Effect Concentration
PBT	: Regulation (EC) No 1907/2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals
PNEC	: Safety Data Sheet
REACH	: Sewage Treatment Plant
SDB (SDS)	: Unique Formula Identifier
STP	: Very Persistent and Very Bioaccumulative
UFI	: European Agreement concerning the International Carriage of Dangerous Goods by Road
vPvB	: Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures

Full text of H- and EUH-statements:

Eye Irrit. 2	: Serious eye damage/eye irritation, Category 2
Skin Irrit. 2	: Skin corrosion/irritation, Category 2
STOT SE 3	: Specific target organ toxicity - Single exposure, Category 3, Respiratory tract irritation
H315	: Causes skin irritation
H319	: Causes serious eye irritation
H335	: May cause respiratory irritation
EUH202	: Cyanoacrylate. Danger. Bonds skin and eyes in seconds. Keep out of the reach of children

SDS EU (REACH Annex II)

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.