

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

1.1 Product identifier/trade name: Zapit Base Red

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

Use of the substance/mixture: Adhesives, sealants – To join small parts in a dental lab setting
Uses advised against: Industrial use only.

1.3 Details of the supplier of the safety data sheet

Company name: model-tray GmbH für rationellen Dental-Bedarf
Street: Julius-Vosseler-Str. 42
Place: DE - 22527 Hamburg
Telephone: +49(0)40-3990366-0
Telefax: +49(0)40-3990366-22
e-mail / Internet: info@model-tray.de / www.model-tray.de

1.4 Emergency telephone number: local poison emergency number
GB: 0044 151 951 3317 (Health and Safety Executive (HSE) Chemicals)
USA: 800-222-1222 (National Poison Control number)

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification according to Directive 67/548/EEC or 1999/45/EC

Indications of danger: Xi - Irritant
R phrases: Irritating to eyes, respiratory system and skin.
Cyanoacrylate. Danger. Bonds skin and eyes in seconds. Keep out of the reach of children.

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

Hazard categories:
Skin corrosion/irritation: Skin Irritation, Category 2 - Skin sensitization, Category 1
Serious eye damage/eye irritation: Eye Irritation, Category 2
Respiratory Tract Irritation, Category 3
Specific target organ toxicity - single exposure: STOT SE 3
Hazard Statements: Causes skin irritation | Causes serious eye irritation | May cause respiratory irritation.

2.2 Label elements

Hazardous components which must be listed on the label: ethyl 2-cyanoacrylate

Signal word: Warning - Pictograms: GHS07



Hazard statements

H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H319	Causes serious eye irritation.
H335	May cause respiratory irritation.

Precautionary statements

P261	Do not breathe vapour/spray/mist/gas/dust.
P264	Wash skin and hands thoroughly after handling.
P271	Use only outdoors or in a well-ventilated area.
P272	Contaminated work clothing should not be allowed out of the workplace.
P280	Wear protective gloves and eye/face protection.
P301+P312	Call Poison Center or doctor/physician if you feel unwell.
P302+P352	IF ON SKIN: Wash with plenty of soap and water.
P333+P313	If skin irritation occurs: Get medical advice/attention.
P304+P340	IF INHALED: Remove to fresh air and keep at rest in a position comfortable for breathing.
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P337+P313	If eye irritation persists: Get medical advice/attention.
P362	Take off contaminated clothing and wash before reuse.

Special labelling of certain mixtures

EUH202 / 2783BK66 Cyanoacrylate. Danger. Bonds skin and eyes in seconds.
Keep out of reach of children.
46097G8KU: Contains Hydroquinone. May produce an allergic reaction.

2.3 Other hazards

The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII.

SECTION 3: Composition/information on ingredients

3.1 Mixtures / Chemical characterization

Cyanoacrylate containing adhesive.

3.2 Hazardous components

EC No	Chemical name	Percent/Wt.
CAS No	Classification according to Directive 67/548/EEC	
Index No	Classification according to Regulation (EC) No. 1272/2008 [CLP]	
REACH No		
230-391-5	Ethyl 2-cyanoacrylate	60 - 100 %
7085-85-0	Xi - Irritant R36/37/38	
607-236-00-9	Skin Irrit. 2, Eye Irrit. 2, STOT SE 3; H315 H319 H335	
204-617-8	1,4-dihydroxybenzene; hydroquinone; quinol	0 - 1 %
123-31-9	Carc. Cat. 3, Muta. Cat. 3, Xn - Harmful, Xi - Irritant, N - Dangerous for the environment / R40-68-22-41-43-50	
604-005-00-4	Carc. 2, Muta. 2, Acute Tox. 4, Eye Dam. 1, Skin Sens. 1, Aquatic Acute 1 (M-Factor = 10); H351 H341 H302 H318 H317 H400	
9011-14-7	Polymethyl methacrylate	10 - 30 %

Full text of R-, H- and EUH-phrases: see section 16.

SECTION 4: First aid measures

4.1 Description of first aid measures

After inhalation

Provide fresh air. In case of respiratory tract irritation, consult a physician.

After contact with skin

WARNING: Cyanoacrylate bond skin rapidly and strongly. A large drop may cause a burn upon solidification. After contact with skin, wash immediately with plenty of water and soap. Do not force separation. In case of skin irritation, consult a physician.

After contact with eyes

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. In case of eye irritation consult an ophthalmologist.

After ingestion

It is almost impossible to swallow Cyanoacrylate. The adhesive solidifies and adheres in the mouth. The lips may be stuck together. Mouth: saliva should lift the adhesive in 12-48 hours. DO NOT force removal. DO NOT swallow the adhesive when it loosens. Lips: apply plenty of warm water. Use maximum wetting and pressure from saliva inside the mouth. Peel or roll the lips apart, gently.

Call a physician immediately.

4.2 Most important symptoms and effects, both acute and delayed

No information available.

4.3 Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

SECTION 5: Firefighting measures

5.1 Suitable extinguishing media

Extinguishing powder, Carbon dioxide (CO₂), alcohol resistant foam, Water spray jet

5.2 Special hazards arising from the substance or mixture

Thermal decomposition can lead to the escape of irritating gases and vapors.

5.3 Advice for firefighters

In case of fire and/or explosion do not breathe fumes.

SECTION 6: Accidental release measures

- 6.1 Personal precautions, protective equipment and emergency procedures**
Use personal protection equipment. Provide adequate ventilation.
- 6.2 Environmental precautions**
Do not allow to enter into surface water or drains.
- 6.3 Methods and material for containment and cleaning up**
Absorb with liquid-binding material (e.g. sand, diatomaceous earth, acid- or universal binding agents).
Allow stiffening. Take up mechanically.
- 6.4 Reference to other sections**
Safe handling: see section 7
Personal protection equipment: see section 8
Disposal: see section 13

SECTION 7: Handling and storage

- 7.1 Precautions for safe handling/Advice on safe handling**
Handle and open container with care.
Use only in well-ventilated areas.
Avoid contact with skin and eyes. When using do not eat, drink or smoke.
- Advice on protection against fire and explosion**
No special fire protection measures are necessary.
- Further information on handling**
If handled uncovered, arrangements with local exhaust ventilation have to be used.
- 7.2 Conditions for safe storage, including any incompatibilities**
Keep only in the original container in a cool, well-ventilated place.
Keep container tightly closed.
- Requirements for storage rooms and vessels**
No special measures are necessary.
- Advice on storage compatibility**
Storage temperature: 6°C - 22°C, 40-70% relative humidity
Storage at 2 - 8°C (refrigerator) is recommended.
Keep the packing dry and well sealed to prevent contamination and absorption of humidity.
- Further information on storage conditions**
Storage class according to TRGS 510: 10

SECTION 8: Exposure controls/personal protection

- 8.1 Control parameters**
General protective measurements should be observed.
- 8.2 Exposure controls/Appropriate engineering controls**
Safe handling: see section 7
- Protective and hygiene measures**
Do not breathe vapour.
Avoid contact with skin, eyes and clothes.
Wash hands before breaks and after work.
Keep away from food, drink and animal feeding stuffs.
- Eye/face protection**
Wear eye/face protection.
- Hand protection**
When handling with chemical substances, protective gloves must be worn with the CE-label including the four control digits. The quality of the protective gloves resistant to chemicals must be chosen as a function of the specific working place concentration and quantity of hazardous substances.
Suitable material: NBR (Nitrile rubber). Thickness of the glove material: 0,5 mm.
Breakthrough time: > 30 min.. For special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves.

Respiratory protection

If handled uncovered, arrangements with local exhaust ventilation should be used if possible.
Respiratory protection necessary at: insufficient ventilation

Environmental exposure controls

Do not allow to enter into surface water or drains.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Physical state: liquid
Color/appearance: pink, transparent, red liquid
Odor: characteristic odor, intensely irritating

pH-Value:: not applicable (polymerization)

Changes in the physical state

Melting point: not determined
Initial boiling point and boiling range: 150 °C
Flash point: 87 °C DIN 51758

Explosive properties

Not explosive according to EU A.14
Lower explosion limits: not determined
Upper explosion limits: not determined
Ignition temperature: not determined
Decomposition temperature: not determined
Vapour pressure (at 20 °C): 0,3 hPa
Density: not determined
Water solubility: practically insoluble
Partition coefficient: not determined
Viscosity at room temperature: liquid (400-600 Centipoise bei 22°C (VOC): <20.000 g/L)
Vapour density: not determined
Solvent content: 0,0 %

9.2 Other information

The product is hygroscopic.

SECTION 10: Stability and reactivity

10.1 Reactivity

No hazardous reaction when handled and stored according to provisions.

10.2 Chemical stability

The mixture is chemically stable under recommended conditions of storage, use and temperature.

10.3 Possibility of hazardous reactions

No hazardous reaction when handled and stored according to provisions.

10.4 Conditions to avoid

Keep the packing dry and well sealed to prevent contamination and absorption of humidity.
Avoid temperatures above 80°C, moisture and alkalies.

10.5 Incompatible materials

Polymerized by water, alcohol, amines, alkaline materials and direct UV.

10.6 Hazardous decomposition products

Carbon Dioxide, Carbon Monoxide and other toxic or irritating compounds may form when heated to decomposition. Oxides of nitrogen and probably hydrogen cyanide are also possible.

SECTION 11: Toxicological information

11.1 Information on toxicological effects/Acute toxicity

Based on available data, the classification criteria are not met

Acute toxicity, exposure routes LD/LC50:

LD50 (dermal, rabbit) > 2 000 mg/kg (estimated)

LD50 (oral, rat) > 5 000 mg/kg (estimated)

11.2 Irritation and corrosivity

Causes skin irritation. Causes serious eye irritation.

11.3 Sensitising effects

Based on available data, the classification criteria are not met.

11.4 STOT-single exposure

May cause respiratory irritation. (ethyl 2-cyanoacrylate)

11.5 Severe effects after repeated or prolonged exposure

Based on available data, the classification criteria are not met.

11.6 Carcinogenic/mutagenic/toxic effects for reproduction

Based on available data, the classification criteria are not met.

11.7 Aspiration hazard

Based on available data, the classification criteria are not met.

SECTION 12: Ecological information

12.1 Toxicity

There are no data available on the mixture itself.

12.2 Persistence and degradability

There are no data available on the mixture itself.

12.3 Bioaccumulative potential

No indication of bioaccumulation potential.

12.4 Mobility in soil

There are no data available on the mixture itself.

12.5 Results of PBT and vPvB assessment

The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII.

12.6 Other adverse effects

No information available.

Further information

Do not allow uncontrolled discharge of product into the environment.

The product has not been tested. Due to the consistency along with the low water solubility of the product a bioavailability is unlikely.

SECTION 13: Disposal considerations

13.1 Waste treatment methods / Advice on disposal

Dispose according to legislation.

Waste disposal number of waste from residues/unused products

080409 WASTES FROM THE MANUFACTURE, FORMULATION, SUPPLY AND USE (MFSU) OF COATINGS (PAINTS, VARNISHES AND VITREOUS ENAMELS), ADHESIVES, SEALANTS AND PRINTING INKS; wastes from MFSU of adhesives and sealants (including waterproofing products); waste adhesives and sealants containing organic solvents or other dangerous substances.

Classified as hazardous waste.

Contaminated packaging

Handle contaminated packages in the same way as the substance itself.

SECTION 14: Transport information

- 14.1 Land transport (ADR/RID) - Other applicable information (land transport)**
No dangerous good in sense of these transport regulations.
- 14.2 Marine transport (IMDG) - Other applicable information (marine transport)**
No dangerous good in sense of these transport regulations.
- 14.3 Air transport (ICAO) - Other applicable information (air transport)**
No dangerous good in sense of these transport regulations.
- 14.4 Environmental hazards**
ENVIRONMENTALLY HAZARDOUS: no
- 14.5 Special precautions for user**
not applicable
- 14.6 Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code**
not applicable

SECTION 15: Regulatory information

**15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture
EU regulatory information**

2004/42/EC (VOC): not applicable

National regulatory information

Water contaminating class (D): 1 - slightly water contaminating

SECTION 16: Other information

Changes

Abs. 1 - 16 * Data changed compared with the previous version

Relevant R-phrases (Number and full text)

22	Harmful if swallowed.
36/37/38	Irritating to eyes, respiratory system and skin.
40	Limited evidence of a carcinogenic effect.
41	Risk of serious damage to eyes.
43	May cause sensitization by skin contact.
50	Very toxic to aquatic organisms.
68	Possible risks of irreversible effects.

Relevant H- and EUH-phrases (Number and full text)

H302	Harmful if swallowed.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H335	May cause respiratory irritation.
H341	Suspected of causing genetic defects.
H351	Suspected of causing cancer.
H400	Very toxic to aquatic life.
EUH202	Cyanoacrylate. Danger. Bonds skin and eyes in seconds. Keep out of the reach of children.

Further Information

The above information describes exclusively the safety requirements of the product and is based on our present-day knowledge. The information is intended to give you advice about the safe handling of the product named in this safety data sheet, for storage, processing, transport and disposal. The information cannot be transferred to other products. In the case of mixing the product with other products or in the case of processing, the information on this safety data sheet is not necessarily valid for the new made-up material.

Restricted to professional users.

The data for the hazardous ingredients were taken respectively from the last version of the sub-contractor's safety datasheet.