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

### **Product identifier**

HISTOACRYL

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

#### **Use of the substance/mixture**

Adhesive

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

AESCULAP AG

Am AESCULAP-Platz

D-78532 Tuttlingen/Donau

Telephone: ++49 (0) 74 61 95-0

Telefax: ++49 (0) 74 61 95-2600

Responsible for the safety data sheet: sds@gbk-ingelheim.de

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## **SECTION 2: Hazards identification**

### **Classification of the substance or mixture**

This mixture is not classified as dangerous according to Directive 1999/45/EC.

### **Label elements**

#### **Special labelling of certain mixtures**

Cyanoacrylate. Danger. Bonds skin and eyes in seconds. Keep out of the reach of children.

#### **Additional advice on labelling**

According to the EC hazardous substance regulations in compliance with the EC medicine product regulations this product must not be labelled as a hazardous substance.

#### **Other hazards**

Bonds skin and eyes in seconds.

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

### **Mixtures**

#### **Chemical characterization**

One-component adhesive based on butylcyanoacrylate

#### **Hazardous components**

EC No.	Chemical name	Quantity
CAS No.	Classification	
REACH No.		
229-552-2	Enbucrilate	90 - 100 %
6606-65-1		

Full text of each relevant R phrase can be found in heading 16.

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## **SECTION 4: First aid measures**

### **Description of first aid measures**

#### **General information**

Remove and wash contaminated clothing before re-use.

#### **After inhalation**

Move to fresh air in case of accidental inhalation of fumes from overheating or combustion.

Refer for medical treatment.

#### **After contact with skin**

Do not pull bonded skin apart. It may be gently peeled apart using a blunt object such as a spoon, preferably after soaking in warm soapy water.

Cyanoacrylates release heat during setting. In rare cases, a larger product quantity may develop enough heat to cause burns.

Burns should be treated normally after the adhesive has been removed from the skin.

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If lips are accidentally stuck together apply warm water to the lips and encourage maximum wetting and pressure from saliva inside the mouth.

Peel or roll lips apart. Do not try to pull lips apart with direct opposing action.

**After contact with eyes**

If the eye is bonded closed, release eyelashes with warm water by covering with a wet cotton pad.

Cyanoacrylate will bond to eye protein and will cause periods of weeping which will help to debond the adhesive.

Keep eye covered until debonding is complete, usually within 1-3 days. Do not force eye open. Medical advice should be sought in case solid particles of cyanoacrylate are trapped behind the eyelid causing thus an abrasive damage.

**After ingestion**

Make sure that there is no airways obstruction The product will polymerise immediately in the mouth making it almost impossible to swallow it. Saliva will slowly separate the solidified product from the mouth (several hours).

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

Bonds skin and eyes in seconds.

Vapours may irritate eyes and the respiratory system.

**Indication of any immediate medical attention and special treatment needed**

Treat symptoms.

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**SECTION 5: Firefighting measures**

**Extinguishing media**

**Suitable extinguishing media**

Foam, carbon dioxide (CO<sub>2</sub>), dry chemical, water-spray.

**Extinguishing media which must not be used for safety reasons**

Full water jet.

**Special hazards arising from the substance or mixture**

Fire may produce:

Carbon monoxide, carbon dioxide, sulphur oxides and nitrogen oxides (NO<sub>x</sub>).

**Advice for firefighters**

Use breathing apparatus with independent air supply.

Protective suit.

**Additional information**

Cool containers at risk with water spray jet.

Fire residues and contaminated firefighting water must be disposed of in accordance with the local regulations.

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**SECTION 6: Accidental release measures**

**Personal precautions, protective equipment and emergency procedures**

Avoid contact with skin, eyes and clothing.

Ensure adequate ventilation.

Use personal protective clothing.

**Environmental precautions**

Do not discharge into the drains/surface waters/groundwater.

**Methods and material for containment and cleaning up**

Do not collect spills using clothes. Flood with water in order to terminate the polymerisation and scrape off floor. Hardened material can be disposed of as non-hazardous waste.

**Reference to other sections**

Observe protective instructions (see Sections 7 and 8).

Information for disposal look up chapter 13.

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**SECTION 7: Handling and storage**

**Precautions for safe handling**

**Advice on safe handling**

Ventilation (moderate ventilation) is recommended when larger quantities are used, or where odour problems should become apparent (the odour limit is around 1-2ppm).

In order to minimise the risk of accidental skin or eye contact it is recommended to use automatic dispensing devices.

Keep containers dry and tightly closed to avoid moisture absorption and contamination.

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**Advice on protection against fire and explosion**

No special protective measures against fire required.

**Conditions for safe storage, including any incompatibilities**

**Requirements for storage rooms and vessels**

Store in a cool and shaded area.

Keep only in original container.

Recommended storage temperature: < +22°C

**Advice on storage compatibility**

Incompatible with:

Oxidizing agents., Bases., Water, amines, alcohols

**Further information on storage conditions**

Keep away from food, drink and animal feeding stuffs.

**Specific end use(s)**

Adhesive

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**SECTION 8: Exposure controls/personal protection**

**Control parameters**

**Exposure controls**

**Protective and hygiene measures**

Wash hands before breaks and immediately after handling the product.

When using, do not eat, drink or smoke.

Avoid contact with skin, eyes and clothing.

Take off immediately all contaminated clothing.

**Respiratory protection**

No personal respiratory protective equipment normally required.

**Hand protection**

Solvent-resistant gloves (nitrile rubber).

Requirements can vary as a function of the use. Therefore it is necessary to adhere additionally to the recommendations given by the manufacturer of protective gloves.

It should be taken into consideration, that due to the great number of influential factors such as the temperature, the daily durability of chemicals resistant protective gloves may be considerably reduced in practice, compared to the permeation rate assessed according to EN 374.

**Eye protection**

Tightly fitting goggles.

Eye wash bottle with pure water.

**Skin protection**

Long sleeved clothing.

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**SECTION 9: Physical and chemical properties**

**Information on basic physical and chemical properties**

Physical state:	Liquid
Colour:	Colourless
Odour:	Ester-like

**Test method**

**Changes in the physical state**

Boiling point:	> 149 °C
Flash point:	80 - 93,4 °C
Lower explosion limits:	n.d.
Ignition temperature:	n.d.
Vapour pressure:	< 0,3 hPa
Density (at 20 °C):	1,00 - 1,02 g/cm <sup>3</sup>
Water solubility: (at 20 °C)	polymerised
Solubility in other solvents:	Acetone: Soluble

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## **SECTION 10: Stability and reactivity**

### **Reactivity**

No decomposition if stored and applied as directed.

### **Chemical stability**

Stable under normal conditions.

### **Possibility of hazardous reactions**

Reactions with oxidizing agents.

Rapid exothermic polymerisation will occur in the presence of water, amines, alkalis and alcohols.

### **Conditions to avoid**

To avoid thermal decomposition, do not overheat.

Product is sensitive to light and moisture.

### **Incompatible materials**

Bases., Oxidizing agents., Water, amines, alcohols

### **Hazardous decomposition products**

Carbon monoxide (CO), carbon dioxide (CO<sub>2</sub>) and nitrogen oxides (NO<sub>x</sub>).

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## **SECTION 11: Toxicological information**

### **Information on toxicological effects**

#### **Acute toxicity**

LD<sub>50</sub>/oral/rat: > 5000 mg/kg

LD<sub>50</sub>/dermal/rabbit: > 2000 mg/kg

#### **Irritation and corrosivity**

Skin irritation: Not classified.

Eye irritation: Not classified.

#### **Sensitizing effects**

Not classified.

#### **Severe effects after repeated or prolonged exposure**

STOT - Single exposure: Not classified.

STOT - Repeated exposure: Not classified.

Aspiration hazard: Not classified.

#### **Carcinogenic/mutagenic/toxic effects for reproduction**

Carcinogenicity: Not classified.

Mutagenicity: Not classified.

Teratogenicity Not classified.

#### **Additional information on tests**

Classification in compliance with the assessment procedure specified in the EC guidelines 1999/45/EG.

#### **Empirical data on effects on humans**

Bonds skin and eyes in seconds.

Vapours may irritate eyes and the respiratory system.

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## **SECTION 12: Ecological information**

### **Toxicity**

Ecological data are not available.

### **Persistence and degradability**

No data available.

### **Bioaccumulative potential**

No data available.

### **Mobility in soil**

No data available.

### **Results of PBT and vPvB assessment**

No data available.

### **Other adverse effects**

No data available.

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**Further information**

Do not flush into surface water or sanitary sewer system.

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**SECTION 13: Disposal considerations**

**Waste treatment methods**

**Advice on disposal**

Where possible recycling is preferred to disposal.

Can be incinerated, when in compliance with local regulations.

**Waste disposal number of waste from residues/unused products**

180106 WASTES FROM HUMAN OR ANIMAL HEALTH CARE AND/OR RELATED RESEARCH (except kitchen and restaurant wastes not arising from immediate health care); wastes from natal care, diagnosis, treatment or prevention of disease in humans; chemicals consisting of or containing dangerous substances  
Classified as hazardous waste.

**Contaminated packaging**

Empty containers should be taken for local recycling, recovery or waste disposal.

Contaminated packaging should be emptied as far as possible and after appropriate cleansing may be taken for reuse.

Packaging that cannot be cleaned should be disposed of like the product.

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**SECTION 14: Transport information**

**Land transport (ADR/RID)**

**Other applicable information (land transport)**

Not dangerous according the ADR/RID.

**Marine transport**

**UN proper shipping name:**

Not classified as dangerous in the meaning of sea transport regulations.

**Air transport**

**UN/ID number:**

UN3334

**UN proper shipping name:**

AVIATION REGULATED LIQUID, N.O.S. (Cyanoacrylate ester)

**Transport hazard class(es):**

9

Hazard label:

9



Limited quantity Passenger:

Y964 / 30 kg G

IATA-packing instructions - Passenger:

964

IATA-max. quantity - Passenger:

100 L

IATA-packing instructions - Cargo:

964

IATA-max. quantity - Cargo:

220 L

**Environmental hazards**

Dangerous for the environment:

no

**Special precautions for user**

Handle in accordance with good industrial hygiene and safety practice.

**Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code**

The transport takes place only in approved and appropriate packaging.

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**SECTION 15: Regulatory information**

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

**EU regulatory information**

1999/13/EC (VOC):

< 3 %

**National regulatory information**

Water contaminating class (D):

-- not water contaminating

**Chemical Safety Assessment**

For this substance a chemical safety assessment has not been carried out.

**SECTION 16: Other information**

**Further Information**

Data of items 4 to 8, as well as 10 to 12, do partly not refer to the use and the regular employing of the product (in this sense consult information on use and on product), but to liberation of major amounts in case of accidents and irregularities.

The information describes exclusively the safety requirements for the product(s) and is based on the present level of our knowledge.

The delivery specifications are contained in the corresponding product sheet.

This data does not constitute a guarantee for the characteristics of the product(s) as defined by the legal warranty regulations.

(n.a. = not applicable; n.d. = not determined)

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