

# SAFETY DATA SHEET

## SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

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## SECTION 2: HAZARDS IDENTIFICATION

### 2.1. Classification of the substance or mixture

**Classification (EC 1272/2008)**

Physical and Chemical Hazards	Not classified.
Human health	Skin Irrit. 2 - H315; Eye Irrit. 2 - H319; STOT SE 3 - H335
Environment	Not classified.

**Classification (1999/45/EEC)** Xi;R36/37/38.

The Full Text for all R-Phrases and Hazard Statements are Displayed in Section 16.

### 2.2. Label elements

Label In Accordance With (EC) No. 1272/2008



**Signal Word** Warning

#### Hazard Statements

H315	Causes skin irritation.
H319	Causes serious eye irritation.
H335	May cause respiratory irritation.

#### Precautionary Statements

P271	Use only outdoors or in a well-ventilated area.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P305+351+338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P313	Get medical advice/attention.
P501	Dispose of contents/container to ...

#### Supplementary Precautionary Statements

P261	Avoid breathing vapour/spray.
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## DMVB/CAMV

P264	Wash contaminated skin thoroughly after handling.
P321	Specific treatment (see medical advice on this label).
P302+352	IF ON SKIN: Wash with plenty of soap and water.
P304+340	IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
P312	Call a POISON CENTER or doctor/physician if you feel unwell.
P332+313	If skin irritation occurs: Get medical advice/attention.
P337	If eye irritation persists:
P362	Take off contaminated clothing and wash before reuse.
P403+233	Store in a well-ventilated place. Keep container tightly closed.
P405	Store locked up.

### 2.3. Other hazards

None if used properly

## SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

### 3.2. Mixtures

<b>ETHYL 2-CYANOACRYLATE</b>	<b>60-100%</b>
<b>CAS-No.: 7085-85-0</b>	<b>EC No.: 230-391-5</b>
Classification (EC 1272/2008) Skin Irrit. 2 - H315 Eye Irrit. 2 - H319 STOT SE 3 - H335	Classification (67/548/EEC) Xi;R36/37/38
<b>HYDROQUINONE</b>	<b>&lt; 1%</b>
<b>CAS-No.: 123-31-9</b>	<b>EC No.: 204-617-8</b>
Classification (EC 1272/2008) Acute Tox. 4 - H302 Eye Dam. 1 - H318 Skin Sens. 1 - H317 Muta. 2 - H341 Carc. 2 - H351 Aquatic Acute 1 - H400	Classification (67/548/EEC) Carc. Cat. 3;R40 Muta. Cat. 3;R68 Xn;R22 Xi;R41 R43 N;R50

The Full Text for all R-Phrases and Hazard Statements are Displayed in Section 16.

## SECTION 4: FIRST AID MEASURES

### 4.1. Description of first aid measures

#### Inhalation

Move to fresh air. Consult doctor if symptoms persist.

#### Ingestion

Ensure that breathing passages are not obstructed The product will polymerise immediately in the mouth making it almost impossible to swallow. Saliva will slowly separate the solidified product from the mouth (several hours)

#### Skin contact

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 give off heat on solidification. In rare cases a large drop will generate enough heat to cause a burn Burns should be treated normally after adhesive has been removed from the skin 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 the lips apart with direct opposing action

#### Eye contact

If the eye is bonded closed, release eyelashes with warm water by covering with wet 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 trapped behind the eyelid cause any abrasive damage

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

#### Inhalation.

Irritation, coughing, shortness of breath, chest tightness

**Skin contact**

Redness, inflammation

**Eye contact**

Irritation, conjunctivitis

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

See section: Description of first aid measures

**SECTION 5: FIREFIGHTING MEASURES**

**5.1. Extinguishing media**

**Extinguishing media**

Foam, extinguishing powder, carbon dioxide

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

**Hazardous combustion products**

Oxides of carbon, oxides of nitrogen, irritating organic vapors

**5.3. Advice for firefighters**

**Protective equipment for fire-fighters**

Fire fighters should wear positive pressure self-contained breathing apparatus (SCBA)

**SECTION 6: ACCIDENTAL RELEASE MEASURES**

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

Provide adequate ventilation.

**6.2. Environmental precautions**

Do not let product enter drains

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

Do not use cloths for mopping up. Flood with water to complete polymerization and scrape off the floor. Cured material can be disposed of as non-hazardous waste.

**6.4. Reference to other sections**

See advice in section 8

**SECTION 7: HANDLING AND STORAGE**

**7.1. Precautions for safe handling**

Ventilation (low level) is recommended when using large volumes Use of dispensing equipment is recommended to minimise the risk of skin or eye contact Good industrial hygiene practices should be observed Do not eat, drink or smoke when using the product. Wash hands before work breaks and after finishing work.

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

For optimum shelf life store in original containers under refrigerated conditions at 2-8 C

**7.3. Specific end use(s)**

Adhesive

**SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION**

**8.1. Control parameters**

Name	STD	TWA - 8 Hrs		STEL - 15 Min		Notes
ETHYL 2-CYANOACRYLATE	WEL			0.3 ppm	1.5 mg/m3	
HYDROQUINONE	WEL		0.5 mg/m3			

WEL = Workplace Exposure Limit.

**8.2. Exposure controls**

**Respiratory equipment**

Ensure adequate ventilation

**Hand protection**

The use of chemical resistant gloves such as Nitrile is recommended. Polyethylene or polypropylene gloves are recommended when using in large volumes. Do not use PVC, rubber or nylon gloves. Please note that in practice the working life of the chemical resistance gloves may be considerably reduced as a result of influencing factors (e.g. temperature). Suitable risk assessment should be carried out by the end user. If signs of wear and tear are noticed then the gloves should be replaced.

**Eye protection**

Wear approved safety goggles.

## SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

**9.1. Information on basic physical and chemical properties**

<b>Appearance</b>	Liquid
<b>Colour</b>	Colourless.
<b>Odour</b>	Irritating.
<b>Solubility</b>	Polymerises in presence of water Soluble in: Acetone
<b>Initial boiling point and boiling range</b>	>149 C
<b>Melting point (°C)</b>	No information available.
<b>Vapour density (air=1)</b>	1, 07 g/cm <sup>3</sup>
<b>Vapour pressure</b>	<3 mbar
<b>Evaporation rate</b>	No information available.
<b>pH-Value, Conc. Solution</b>	No information available.
<b>Viscosity</b>	No information available.
<b>Decomposition temperature (°C)</b>	No information available.
<b>Odour Threshold, Lower</b>	No information available.
<b>Odour Threshold, Upper</b>	No information available.
<b>Flash point</b>	80 - 93, 3 C TCC (Tag closed cup).
<b>Auto Ignition Temperature (°C)</b>	No information available.
<b>Flammability Limit - Lower(%)</b>	No information available.
<b>Flammability Limit - Upper(%)</b>	No information available.
<b>Partition Coefficient (N-Octanol/Water)</b>	Not available.
<b>Explosive properties</b>	No information available.
<b>Oxidising properties</b>	Not available.

**9.2. Other information**

No data available / Not applicable

## SECTION 10: STABILITY AND REACTIVITY

**10.1. Reactivity**

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

**10.2. Chemical stability**

Stable under recommended storage conditions

**10.3. Possibility of hazardous reactions**

See section reactivity

**10.4. Conditions to avoid**

Stable under normal conditions of storage and use

## **10.5. Incompatible materials**

### **Materials To Avoid**

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

## **10.6. Hazardous decomposition products**

No data available

## **SECTION 11: TOXICOLOGICAL INFORMATION**

### **11.1. Information on toxicological effects**

#### **Toxicological information**

The preparation is classified based on the conventional method outlined in Article 6(1)(a) of Directive 1999/45/EC. Relevant available health/ecological information for the substances listed under Section 3 is provided in the following

#### **Acute toxicity:**

##### **Acute Toxicity (Oral LD50)**

> 5000 mg/kg Rat

##### **Acute Toxicity (Dermal LD50)**

< 2000 mg/kg Rabbit

#### **Inhalation**

Irritating to respiratory system. Prolonged exposure to high concentrations of vapours may lead to chronic effects in sensitive individuals. In dry atmosphere with <50% humidity, vapours may irritate the eyes and respiratory system

#### **Ingestion**

Cyanoacrylates are considered to have relatively low toxicity. Acute oral LD50 is >5000mg/kg (rat). It is almost impossible to swallow as it rapidly polymerises in the mouth.

#### **Skin contact**

Irritating to skin. Considered to be low toxicity: acute dermal LD50 (rabbit) >2000mg/kg. Due to polymerisation at the skin surface, allergic reaction is unlikely to occur.

#### **Eye contact**

Irritating to eyes. Liquid product will bond eyelids. In dry atmosphere (RH<50%) vapours may cause irritation and lachrymatory effect.

## **SECTION 12: ECOLOGICAL INFORMATION**

### **Ecotoxicity**

Do not empty into drains / surface water / ground water

### **12.1. Toxicity**

No information available

### **12.2. Persistence and degradability**

No further relevant information available

### **12.3. Bioaccumulative potential**

#### **Bioaccumulative potential**

No data available on bioaccumulation.

#### **Partition coefficient**

Not available.

### **12.4. Mobility in soil**

#### **Mobility:**

Cured adhesives are immobile

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

This product does not contain any PBT or vPvB substances.

### **12.6. Other adverse effects**

Not available.

**SECTION 13: DISPOSAL CONSIDERATIONS****13.1. Waste treatment methods**

Cured adhesive: Dispose of as water insoluble non-toxic solid chemical in authorised landfill or incinerate under control conditions. Dispose of in accordance with local and national regulations Contribution of this product to waste is very insignificant in comparison to article in which it is used After use, tubes, cartons and bottles containing residue product should be disposed of as chemically contaminated waste in a authorised legal land fill site or incinerated

**Waste Class**

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

**SECTION 14: TRANSPORT INFORMATION**

**Road Transport Notes** Not Classified

**Rail Transport Notes** Not classified.

**Sea Transport Notes** Not classified.

**14.1. UN number**

**UN No. (ICAO)** 3334

**14.2. UN proper shipping name**

**Proper Shipping Name** Aviation regulated liquid, n.o.s. (Cyanoacrylate ester), Primary packs containing less than 500ml are unregulated by this mode of transport and may be shipped unrestricted

**14.3. Transport hazard class(es)**

**ICAO Class/Division** 9

**14.4. Packing group**

**ICAO Packing group** III

**14.5. Environmental hazards**

**Environmentally Hazardous Substance/Marine Pollutant**

No.

**14.6. Special precautions for user**

No information required.

**14.7. 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 Legislation**

Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing a European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No 793/93 and Commission Regulation (EC) No 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC, including amendments. 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 with amendments.

**Health and Environmental Listings**

VOC content <3, 00% (1999/13/EC)

**15.2. Chemical Safety Assessment**

No chemical safety assessment has been carried out.

**SECTION 16: OTHER INFORMATION**

**Risk Phrases In Full**

R22	Harmful if swallowed.
R36/37/38	Irritating to eyes, respiratory system and skin.
R40	Limited evidence of a carcinogenic effect.
R43	May cause sensitisation by skin contact.
R68	Possible risk of irreversible effects.
R41	Risk of serious damage to eyes.
R50	Very toxic to aquatic organisms.

**Hazard Statements In Full**

H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H315	Causes skin irritation.
H302	Harmful if swallowed.
H317	May cause an allergic skin reaction.
H335	May cause respiratory irritation.
H351	Suspected of causing cancer.
H341	Suspected of causing genetic defects.
H400	Very toxic to aquatic life.