

# Safety Data Sheet

according to Regulation (EC) No 1907/2006



**Z70**

Revision date: 25.11.2020

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

### 1.1. Product identifier

Z70

UFI: 7300-P0FE-300G-G666

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

#### Use of the substance/mixture

Adhesives, sealants

### 1.3. Details of the supplier of the safety data sheet

Company name: Hottinger Brüel & Kjaer  
Street: Im Tiefen See 45  
Place: D-64293 Darmstadt  
Telephone: +49 (0)6151 803-0  
Internet: www.hbm.com  
Responsible Department: support@hbm.com

**1.4. Emergency telephone number:** +49-30-18412-0

## SECTION 2: Hazards identification

### 2.1. Classification of the substance or mixture

#### Regulation (EC) No. 1272/2008

Hazard categories:

Skin corrosion/irritation: Skin Irrit. 2

Serious eye damage/eye irritation: Eye Irrit. 2

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

#### Regulation (EC) No. 1272/2008

#### Hazard components for labelling

mecrilate; methyl 2-cyanoacrylate

ethyl 2-cyanoacrylate

**Signal word:** Warning

**Pictograms:**



#### Hazard statements

H315 Causes skin irritation.

H319 Causes serious eye irritation.

H335 May cause respiratory irritation.

#### Precautionary statements

P280 Wear protective gloves/protective clothing/eye protection/face protection/hearing 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.

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## Special labelling of certain mixtures

Restricted to professional users.

## Labelling of packages where the contents do not exceed 125 ml

Signal word: Warning

Pictograms:



## 2.3. Other hazards

No information available.

## SECTION 3: Composition/information on ingredients

### 3.2. Mixtures

#### Hazardous components

CAS No	Chemical name	Quantity		
	EC No	Index No	REACH No	
	GHS Classification			
137-05-3	mecrilate; methyl 2-cyanoacrylate			70 - < 75 %
	205-275-2	607-235-00-3		
	Skin Irrit. 2, Eye Irrit. 2, STOT SE 3; H315 H319 H335			
7085-85-0	ethyl 2-cyanoacrylate			25 - < 30 %
	230-391-5	607-236-00-9		
	Skin Irrit. 2, Eye Irrit. 2, STOT SE 3; H315 H319 H335			
123-31-9	1,4-dihydroxybenzene; hydroquinone; quinol			< 0,1 %
	204-617-8	604-005-00-4		
	Carc. 2, Muta. 2, Acute Tox. 4, Eye Dam. 1, Skin Sens. 1, Aquatic Acute 1; H351 H341 H302 H318 H317 H400			

Full text of H and EUH statements: see section 16.

#### Specific Conc. Limits, M-factors and ATE

CAS No	EC No	Chemical name	Quantity	
	Specific Conc. Limits, M-factors and ATE			
137-05-3	205-275-2	mecrilate; methyl 2-cyanoacrylate	70 - < 75 %	
	STOT SE 3; H335: >= 10 - 100			
7085-85-0	230-391-5	ethyl 2-cyanoacrylate	25 - < 30 %	
	STOT SE 3; H335: >= 10 - 100			
123-31-9	204-617-8	1,4-dihydroxybenzene; hydroquinone; quinol	< 0,1 %	
	oral: LD50 = 302 mg/kg M akut; H400: M=10			

## SECTION 4: First aid measures

### 4.1. Description of first aid measures

#### General information

Remove affected person from the danger area and lay down. If unconscious but breathing normally, place in recovery position and seek medical advice. First aider: Pay attention to self-protection!

#### After inhalation

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

#### After contact with skin

After contact with skin, wash immediately with plenty of water and soap. Remove contaminated, saturated

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clothing immediately. In case of skin irritation, consult a physician.

### **After contact with eyes**

In case of contact with eyes flush immediately with plenty of flowing water for 10 to 15 minutes holding eyelids apart and consult an ophthalmologist.

### **After ingestion**

If swallowed, rinse mouth with water (only if the person is conscious). If swallowed, do not induce vomiting: seek medical advice immediately and show this container or label.

### **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**

No information available.

## **SECTION 5: Firefighting measures**

### **5.1. Extinguishing media**

#### **Suitable extinguishing media**

Water spray jet, Dry extinguishing powder, Foam

#### **Unsuitable extinguishing media**

Full water jet

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

Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water.

### **5.3. Advice for firefighters**

Wear a self-contained breathing apparatus and chemical protective clothing.

Co-ordinate fire-fighting measures to the fire surroundings.

### **Additional information**

Use water spray jet to protect personnel and to cool endangered containers. Suppress gases/vapours/mists with water spray jet. Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water.

## **SECTION 6: Accidental release measures**

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

#### **General measures**

Do not breathe gas/vapour/aerosol. Provide adequate ventilation as well as local exhaust at critical locations. If technical exhaust or ventilation measures are not possible or insufficient, respiratory protection must be worn. Use personal protection equipment. Personal protection equipment: see section 8

### **6.2. Environmental precautions**

Do not allow to enter into surface water or drains.

Do not allow uncontrolled discharge of product into the environment.

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

#### **Other information**

Take up mechanically, placing in appropriate containers for disposal. Absorb with liquid-binding material (sand, diatomaceous earth, acid- or universal binding agents).

### **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**

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## Advice on safe handling

If local exhaust ventilation is not possible or not sufficient, the entire working area should be ventilated by technical means.

## Advice on protection against fire and explosion

No special technical protective measures are necessary.

## Further information on handling

Wear personal protection equipment (refer to section 8). Do not empty into drains. When using do not eat, drink, smoke, sniff.

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

### Requirements for storage rooms and vessels

Keep container tightly closed and in a well-ventilated place.

### Hints on joint storage

TRGS 510

### Further information on storage conditions

Store in a cool dry place.

## 7.3. Specific end use(s)

Adhesives, sealants

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

#### Exposure limits (EH40)

CAS No	Substance	ppm	mg/m <sup>3</sup>	fibres/ml	Category	Origin
7085-85-0	Ethyl cyanoacrylate	0.3	1.5		STEL (15 min)	WEL
123-31-9	Hydroquinone	-	0.5		TWA (8 h)	WEL
137-05-3	Methyl cyanoacrylate	0.3	1.4		STEL (15 min)	WEL

### 8.2. Exposure controls



#### Appropriate engineering controls

If handled uncovered, arrangements with local exhaust ventilation should be used if possible.

If local exhaust ventilation is not possible or not sufficient, the entire working area should be ventilated by technical means.

#### Protective and hygiene measures

When using do not eat or drink. Do not breathe gas/fumes/vapour/spray.

After contact with skin, take off immediately all contaminated clothing, and wash immediately with plenty of water and soap. Wear suitable protective clothing, gloves and eye/face protection.

Draw up and observe skin protection programme.

#### 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. EN ISO 374

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.

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Thickness of the glove material:  $\geq 0,7\text{mm}$

Suitable gloves type NBR (Nitrile rubber)

Breakthrough time:  $>480\text{ min}$

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.

## Skin protection

Used working clothes should not be worn outside the work area. Separate storage of work clothes.

## Respiratory protection

If technical exhaust or ventilation measures are not possible or insufficient, respiratory protection must be worn. Filtering device (full mask or mouthpiece) with filter: a

## 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	
Colour:	colourless	
Odour:	stinging	
pH-Value:		not determined

#### Changes in the physical state

Melting point:		not determined
Boiling point or initial boiling point and boiling range:		$> 149\text{ °C}$
Sublimation point:		not determined
Softening point:		not determined
Pour point:		not determined
not determined:		
Flash point:		$80 - 93\text{ °C}$
Sustaining combustion:		No data available

#### Flammability

Solid/liquid:		not determined
Gas:		not determined

#### Explosive properties

not determined

Lower explosion limits:		not determined
Upper explosion limits:		not determined
Auto-ignition temperature:		not determined

#### Self-ignition temperature

Solid:		not determined
Gas:		not determined

Decomposition temperature: not determined

#### Oxidizing properties

not determined

Vapour pressure:		$<0,6\text{ hPa}$
(at $20\text{ °C}$ )		
Vapour pressure:		$<700\text{ hPa}$
(at $50\text{ °C}$ )		
Density (at $20\text{ °C}$ ):		$1,1\text{ g/cm}^3$

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Bulk density:	not determined
Water solubility:	not determined
<b>Solubility in other solvents</b>	
No information available.	
Partition coefficient n-octanol/water:	not determined
Viscosity / dynamic:	not determined
Viscosity / kinematic:	not determined
Flow time:	not determined
Relative vapour density:	not determined
Evaporation rate:	not determined
Solvent separation test:	not determined
Solvent content:	not determined

## **9.2. Other information**

Solid content:	0,10 %
No information available.	

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

### **10.1. Reactivity**

No information available.

### **10.2. Chemical stability**

The substance 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**

No information available.

### **10.5. Incompatible materials**

No information available.

### **10.6. Hazardous decomposition products**

No information available.

## **SECTION 11: Toxicological information**

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

#### **Acute toxicity**

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

CAS No	Chemical name				
	Exposure route	Dose	Species	Source	Method
123-31-9	1,4-dihydroxybenzene; hydroquinone; quinol				
	oral	LD50 mg/kg	302	Rat	IUCLID

#### **Irritation and corrosivity**

Causes skin irritation.

Causes serious eye irritation.

#### **Sensitising effects**

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

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

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

## **STOT-single exposure**

May cause respiratory irritation. (mecrilate; methyl 2-cyanoacrylate; ethyl 2-cyanoacrylate)

## **STOT-repeated exposure**

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

## **Aspiration hazard**

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

## **SECTION 12: Ecological information**

### **12.1. Toxicity**

CAS No	Chemical name					
	Aquatic toxicity	Dose	[h]   [d]	Species	Source	Method
123-31-9	1,4-dihydroxybenzene; hydroquinone; quinol					
	Acute fish toxicity	LC50 mg/l	0,44	96 h	Pimephales promelas	IUCLID
	Acute algae toxicity	ErC50 mg/l	0,335	72 h	Selenastrum capricornutum	IUCLID
	Acute crustacea toxicity	EC50 mg/l	0,29	48 h	Daphnia magna	

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

No information available.

### **12.3. Bioaccumulative potential**

No information available.

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

No information available.

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

No information available.

### **12.7. Other adverse effects**

No information available.

### **Further information**

No information available.

## **SECTION 13: Disposal considerations**

### **13.1. Waste treatment methods**

#### **Disposal recommendations**

Dispose of waste according to applicable legislation.

## **SECTION 14: Transport information**

### **Land transport (ADR/RID)**

#### **14.1. UN number:**

No dangerous good in sense of these transport regulations.

#### **14.2. UN proper shipping name:**

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

### **Inland waterways transport (ADN)**

#### **14.1. UN number:**

No dangerous good in sense of these transport regulations.

#### **14.2. UN proper shipping name:**

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

### **Marine transport (IMDG)**

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**14.1. UN number:** No dangerous good in sense of these transport regulations.  
**14.2. UN proper shipping name:** AVIATION REGULATED LIQUID, N.O.S. (Cyanoacrylate ester)

## Air transport (ICAO-TI/IATA-DGR)

**14.1. UN number:** UN 3334  
**14.2. UN proper shipping name:** AVIATION REGULATED LIQUID, N.O.S. (Cyanoacrylate ester)  
**14.3. Transport hazard class(es):** 9  
**14.4. Packing group:** III  
Hazard label: 9



Special Provisions: A27  
Limited quantity Passenger: 30 kg G  
Passenger LQ: Y964  
Excepted quantity: E1  
IATA-packing instructions - Passenger: 964  
IATA-max. quantity - Passenger: 450 L  
IATA-packing instructions - Cargo: 964  
IATA-max. quantity - Cargo: 450 L

## 14.5. Environmental hazards

ENVIRONMENTALLY HAZARDOUS: No

## 14.7. Maritime transport in bulk according to IMO instruments

No transport as bulk according to IBC Code.

## SECTION 15: Regulatory information

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

#### EU regulatory information

Restrictions on use (REACH, annex XVII):  
Entry 3

2004/42/EC (VOC): < 3%  
Information according to 2012/18/EU (SEVESO III): Not subject to 2012/18/EU (SEVESO III)

#### National regulatory information

Employment restrictions: Observe restrictions to employment for juveniles according to the 'juvenile work protection guideline' (94/33/EC). Observe employment restrictions under the Maternity Protection Directive (92/85/EEC) for expectant or nursing mothers.  
Water hazard class (D): 1 - slightly hazardous to water

### 15.2. Chemical safety assessment

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

## SECTION 16: Other information

### Changes

This data sheet contains changes from the previous version in section(s): 2,3,6,7,9,15.



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## Classification for mixtures and used evaluation method according to Regulation (EC) No. 1272/2008 [CLP]

Classification	Classification procedure
Skin Irrit. 2; H315	Calculation method
Eye Irrit. 2; H319	Calculation method
STOT SE 3; H335	Calculation method

## Relevant H and EUH statements (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.

## Identified uses

No	Short title	LCS	SU	PC	PROC	ERC	AC	TF	Specification
1	Klebstoff	-	-	-	-	-	-	-	

LCS: Life cycle stages

SU: Sectors of use

PC: Product categories

PROC: Process categories

ERC: Environmental release categories

AC: Article categories

TF: Technical functions

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