

Z70

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1. Identification**Product identifier**

Z70

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

Adhesives, sealants

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

Emergency telephone number: +49-30-18412-0**2. Hazard identification****Classification of the substance or mixture****Regulation (EC) No 1272/2008**

Skin Irrit. 2; H315

Eye Irrit. 2; H319

STOT SE 3; H335

Full text of hazard statements: see SECTION 16.

Label elements**Regulation (EC) No 1272/2008****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.

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

Special labelling of certain mixtures

Restricted to professional users.

Labelling of packages where the contents do not exceed 125 ml**Signal word:** Warning**Pictograms:**

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Other hazards

No information available.

3. Composition/information on ingredients**Mixtures****Hazardous components**

CAS No	Chemical name	Quantity
137-05-3	mecrilate; methyl 2-cyanoacrylate	70 - < 75 %
7085-85-0	ethyl 2-cyanoacrylate	25 - < 30 %
123-31-9	1,4-dihydroxybenzene; hydroquinone; quinol	< 0,1 %

Full text of H 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 acute; H400: M=10	

4. First-aid measures**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 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.

Most important symptoms and effects, whether acute or delayed

No information available.

Indication of immediate medical attention and special treatment needed

No information available.

5. Fire-fighting measures**Extinguishing media****Suitable extinguishing media**

Water spray jet, Dry extinguishing powder, Foam

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Unsuitable extinguishing media

Full water jet

Specific hazards arising from the hazardous product

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

Special protective equipment and precautions for fire-fighters

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.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

General advice

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

Environmental precautions

Do not allow to enter into surface water or drains.

Do not allow uncontrolled discharge of product into the environment.

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).

Reference to other sections

Safe handling: see section 7

Personal protection equipment: see section 8

Disposal: see section 13

7. Handling and storage

Precautions for safe handling

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.

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.

8. Exposure controls/Personal protection

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Control parameters**Additional advice on limit values**

To date, no national critical limit values exist.

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.

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.

9. Physical and chemical properties**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/freezing point:	not determined
Boiling point or initial boiling point and boiling range:	$> 149\text{ }^{\circ}\text{C}$
Sublimation point:	not determined

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Softening point:	not determined
Pour point:	not determined
not determined:	
Flash point:	80 - 93 °C
Sustaining combustion:	No data available

Flammability

Solid/liquid:	not determined
Gas:	not determined

Explosive properties

not determined

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

Self-ignition temperature

Solid:	not determined
Gas:	not determined

Decomposition temperature:	not determined
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Oxidizing properties

not determined

Vapour pressure:	<0,6 hPa
(at 20 °C)	
Vapour pressure:	<700 hPa
(at 50 °C)	

Density (at 20 °C):	1,1 g/cm³
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Bulk density:	not determined
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Water solubility:	not determined
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Solubility in other solvents

No information available.

Partition coefficient n-octanol/water:	not determined
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Viscosity / dynamic:	not determined
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Viscosity / kinematic:	not determined
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Flow time:	not determined
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Relative vapour density:	not determined
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Evaporation rate:	not determined
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Solvent separation test:	not determined
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Solvent content:	not determined
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Other information

Solid content:	0,10 %
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No information available.

10. Stability and reactivity**Reactivity**

No information available.

Chemical stability

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

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Possibility of hazardous reactions

No hazardous reaction when handled and stored according to provisions.

Conditions to avoid

No information available.

Incompatible materials

No information available.

Hazardous decomposition products

No information available.

11. Toxicological information**Information on toxicological effects****Acute toxicity**

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

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

Irritation and corrosivity

Causes skin irritation.

Causes serious eye irritation.

Sensitizing effects

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

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.

12. Ecological information**Persistence and degradability**

No information available.

Bioaccumulative potential

No information available.

Mobility in soil

No information available.

Endocrine disrupting properties

This product does not contain a substance that has endocrine disrupting properties with respect to non-target organisms as no components meets the criteria.

Other adverse effects

No information available.

Further information

No information available.

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13. Disposal considerations

Waste treatment methods

Disposal recommendations

Dispose of waste according to applicable legislation.

14. Transport information

Canadian TDG

<u>UN number or ID number:</u>	UN 3334
<u>Proper shipping name:</u>	AVIATION REGULATED LIQUID, N.O.S.
<u>Hazard classes:</u>	9
Hazard label:	9
Limited quantity:	0



Marine transport (IMDG)

<u>UN number:</u>	No dangerous good in sense of these transport regulations.
<u>United Nations proper shipping name:</u>	AVIATION REGULATED LIQUID, N.O.S. (Cyanoacrylate ester)

Air transport (ICAO-TI/IATA-DGR)

<u>UN number:</u>	UN 3334
<u>United Nations proper shipping name:</u>	AVIATION REGULATED LIQUID, N.O.S. (Cyanoacrylate ester)
<u>Transport hazard class(es):</u>	9
<u>Packing group:</u>	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

Environmental hazards

ENVIRONMENTALLY HAZARDOUS:	No
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15. Regulatory information

Canadian regulations

16. Other information

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Changes

This data sheet contains changes from the previous version in section(s): 2.

Classification for mixtures and used evaluation method according to GHS

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

Relevant H 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.
EUH202	Cyanoacrylate. Danger. Bonds skin and eyes in seconds. Keep out of the reach of children.

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