

Z70

Revision date: 11/25/2020

Page 1 of 8

1. Identification

Product identifier

Z70

UFI: 7300-P0FE-300G-G666

Recommended use of the chemical and restrictions on use

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 phone number: +49-30-18412-0

2. Hazard(s) identification

Classification of the chemical

Regulation (EC) No. 1272/2008

Skin corrosion/irritation: Skin Irrit. 2

Serious eye damage/eye irritation: Eye Irrit. 2

Specific target organ toxicity single exposure: STOT SE 3 (respiratory tract irritation)

Label elements

Regulation (EC) No. 1272/2008

Signal word: Warning

Pictograms:



Hazard statements

Causes skin irritation

Causes serious eye irritation

May cause respiratory irritation

Precautionary statements

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

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:



Z70

Revision date: 11/25/2020

Page 2 of 8

Hazards not otherwise classified

No information available.

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

CAS No	Components	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 and EUH statements: see section 16.

Specific Conc. Limits, M-factors and ATE

CAS No	EC No	Components	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	

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, both acute and delayed

No information available.

Indication of any 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

Z70

Revision date: 11/25/2020

Page 3 of 8

Unsuitable extinguishing media

Full water jet

Specific hazards arising from the chemical

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/stream to protect personnel and to cool endangered containers. Suppress gases/vapors/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 measures**

Do not breathe gas/vapor/spray. 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 (PPE): 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 (PPE): 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

Z70

Revision date: 11/25/2020

Page 4 of 8

Control parameters**Exposure limits**

CAS No.	Substance	ppm	mg/m ³	f/cc	Category	Origin
123-31-9	Hydroquinone	-	2		TWA (8 h)	PEL
		-	C 2		Ceiling	REL
137-05-3	Methyl-2-cyanoacrylate	2	8		TWA (8 h)	REL
		4	16		STEL (15 min)	REL

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/fume/vapor/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

Color:

colorless

Odor:

stinging

pH-Value:

not determined

Z70

Revision date: 11/25/2020

Page 5 of 8

Changes in the physical state

Melting point/freezing point:	not determined
Boiling point or initial boiling point and boiling range:	> 149 °C
Sublimation point:	not determined
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 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

Vapor pressure: (at 20 °C)	<0,6 hPa
Vapor pressure: (at 50 °C)	<700 hPa
Density (at 20 °C):	1,1 g/cm ³
Bulk density:	not determined
Water solubility:	not determined

Solubility in other solvents

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

Other information

Solid content: 0,10 %

No information available.

10. Stability and reactivity

Z70

Revision date: 11/25/2020

Page 6 of 8

Reactivity

No information available.

Chemical stability

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

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	Components				
	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

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.

Specific target organ toxicity (STOT) - single exposure

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

Specific target organ toxicity (STOT) - repeated exposure

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

Carcinogenicity (OSHA): No ingredient of this mixture is listed.

Carcinogenicity (IARC): Hydroquinone (CAS 123-31-9) is listed in group 3.

Carcinogenicity (NTP): No ingredient of this mixture is listed.

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.

Z70

Revision date: 11/25/2020

Page 7 of 8

Other adverse effects

No information available.

Further information

No information available.

13. Disposal considerations**Waste treatment methods****Disposal recommendations**

Dispose of waste according to applicable legislation.

14. Transport information**US DOT 49 CFR 172.101****UN/ID number:**

UN 3334

Proper shipping name:

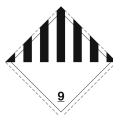
AVIATION REGULATED LIQUID, N.O.S.

Transport hazard class(es):

9

Hazard label:

9

**Marine transport (IMDG)****UN number:**

No dangerous good in sense of these transport regulations.

UN proper shipping name:

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

Air transport (ICAO-TI/IATA-DGR)**UN number:**

UN 3334

UN proper shipping name:

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

Transport hazard class(es):

9

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

Environmental hazards

ENVIRONMENTALLY HAZARDOUS: No

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

No transport as bulk according to IBC Code.

15. Regulatory information**U.S. Regulations**

National regulatory information

SARA Section 302 Extremely hazardous substances:

Hydroquinone (123-31-9): Reportable quantity = 100 lbs., Threshold planning quantity = 500/10,000 lbs.

SARA Section 304 CERCLA:

Hydroquinone (123-31-9): Reportable quantity = 100 (45.4) lbs. (kg)

SARA Section 311/312 Hazards:

mecrilate; methyl 2-cyanoacrylate (137-05-3): Immediate (acute) health hazard

ethyl 2-cyanoacrylate (7085-85-0): Immediate (acute) health hazard

Hydroquinone (123-31-9): Delayed (chronic) health hazard, Immediate (acute) health hazard

SARA Section 313 Toxic release inventory:

Hydroquinone (123-31-9): De minimis limit = 1.0 %, Reportable threshold = Standard

Clean Air Act Section 112(b):

Hydroquinone (123-31-9)

State Regulations

Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65, State of California)

This product can not expose you to chemicals known to the State of California to cause cancer, birth defects or other reproductive harm.

16. Other information

Changes

Revision date: 11/25/2020

Revision No: 1,3

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

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 (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

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