

Z70

Revision date: 11.02.2024

Page 1 of 8

1. Identification

Product identifier

Z70

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

Use of the substance/mixture

Klebstoffe, Dichtstoffe

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: +49(0)6131 19240 support@hbm.com

Emergency telephone number: 1703-741-5970

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:



Z70

Revision date: 11.02.2024

Page 2 of 8

Other hazards

Es liegen keine Informationen vor.

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 Aquatic Acute 1; 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

Z70

Revision date: 11.02.2024

Page 3 of 8

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

For non-emergency personnel

Remove persons to safety.

For emergency responders

First aider: Pay attention to self-protection!

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**For cleaning up**

Absorb with liquid-binding material (sand, diatomaceous earth, acid- or universal binding agents).

Take up mechanically, placing in appropriate containers for disposal.

Reference to other sections

Safe handling: see section 7

Wear personal protection equipment (refer to 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

Z70

Revision date: 11.02.2024

Page 4 of 8

Requirements for storage rooms and vessels

Keep container tightly closed in a cool, well-ventilated place.

Hints on joint storage

TRGS 510

Further information on storage conditions

No information available.

8. Exposure controls/Personal protection**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

Z70

Revision date: 11.02.2024

Page 5 of 8

| | | |
|---|----------|-----------------------|
| 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 °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 |
| 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 |
| Oxidizing properties | | |
| not determined: | | |
| Vapour pressure: (at 20 °C) | | <0,6 hPa |
| Vapour 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 | | |
| Es liegen keine Informationen vor. | | |
| 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. | | |

Z70

Revision date: 11.02.2024

Page 6 of 8

10. Stability and reactivity

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.

ATEmix calculated

ATE (oral) > 2000 mg/kg; ATE (dermal) > 2000 mg/kg; ATE (inhalation vapour) > 20 mg/l; ATE (inhalation dust/mist) > 5 mg/l

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

Information on other hazards

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.

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.

13. Disposal considerations

Waste treatment methods

Disposal recommendations

Dispose of waste according to applicable legislation.

14. Transport information

Canadian TDG

Proper shipping name:

No dangerous good in sense of this transport regulation.

Marine transport (IMDG)

UN number:

No dangerous good in sense of this transport regulation.

United Nations proper shipping name:

No dangerous good in sense of this transport regulation.
AVIATION REGULATED LIQUID, N.O.S. (Cyanoacrylate ester)

Transport hazard class(es):

No dangerous good in sense of this transport regulation.

Packing group:

No dangerous good in sense of this transport regulation.

Air transport (ICAO-TI/IATA-DGR)

UN number:

UN 3334

United Nations proper shipping name:

No dangerous good in sense of this transport regulation.
AVIATION REGULATED LIQUID, N.O.S. (Cyanoacrylate ester)

Transport hazard class(es):

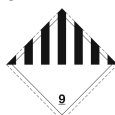
9

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

Z70

Revision date: 11.02.2024

Page 8 of 8

ENVIRONMENTALLY HAZARDOUS: No

15. Regulatory information**Canadian regulations****16. Other information****Changes**

This data sheet contains changes from the previous version in section(s): 6,7,9,11,12,14.

Classification for mixtures and used evaluation method according to regulation (EC) No 1272/2008

| 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. |

Further Information

The information is based on the present level of our knowledge. It does not, however, give assurance of product properties and establishes no contract legal rights.

The receiver of our product is singularly responsible for adhering to existing laws and regulations.

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