1. Identification

**Product identifier**

Z 70

**Details of the safety data sheet**

- **Company name:** Hottinger Baldwin Messtechnik GmbH
- **Street:** Im Tiefen See 45
- **Place:** D-64293 Darmstadt
- **Telephone:** +49 (0)6151 803-0
- **e-mail:** info@de.hbm.com
- **Internet:** www.hbm.com
- **Responsible Department:** Customer Care Center CCC +49 6151 803 0
- **Emergency phone number:** +49(0)6131/19240

2. Hazard(s) identification

**Classification of the chemical**

- **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

**Label elements**

- **Signal word:** Warning
- **Pictograms:** exclamation mark

**Hazard statements**

- Causes skin irritation
- Causes serious eye irritation
- May cause respiratory irritation

**Precautionary statements**

- Avoid breathing dust/fume/gas/mist/vapors/spray.
- 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**


3. Composition/information on ingredients

**Mixtures**
Safety Data Sheet

according to 29 CFR 1910.1200(g)

Chemical characterization
Mixture related information
Cyanoacrylate containing adhesive.

Hazardous components

<table>
<thead>
<tr>
<th>CAS No</th>
<th>Components</th>
<th>Quantity</th>
</tr>
</thead>
<tbody>
<tr>
<td>137-05-3</td>
<td>methyl 2-cyanoacrylate</td>
<td>&gt;60 - &lt;80 %</td>
</tr>
<tr>
<td>7085-85-0</td>
<td>ethyl 2-cyanoacrylate</td>
<td>&gt;20 - &lt;30%</td>
</tr>
<tr>
<td>123-31-0</td>
<td>1,4-dihydroxybenzene; hydroquinone; quinol</td>
<td>&lt;0.1 %</td>
</tr>
</tbody>
</table>

4. First-aid measures

Description of first aid measures

After inhalation
Provide fresh air. Medical treatment necessary.

After contact with skin
Cyanoacrylate! Danger! Skin and eyelids will stick together in seconds. Keep out of the reach of children.
Do not use force or solvents to remove product incrustations from affected skin areas.
Call a physician immediately.

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.
Do not use force or solvents to remove product incrustations from affected skin areas.

After ingestion
May be fatal if swallowed and enters airways.

Most important symptoms and effects, both acute and delayed
Irritating to eyes, respiratory system and skin.

Indication of any immediate medical attention and special treatment needed
Call a physician immediately.

5. Fire-fighting measures

Extinguishing media

Suitable extinguishing media
Co-ordinate fire-fighting measures to the fire surroundings.

Unsuitable extinguishing media
High power water jet.

Specific hazards arising from the chemical
In case of fire may be liberated:
Carbon monoxide. Carbon dioxide (CO2).
Use water spray jet to protect personnel and to cool endangered containers.

Special protective equipment and precautions for fire-fighters
In case of fire: Wear self-contained breathing apparatus.

Additional information
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
Safety Data Sheet
according to 29 CFR 1910.1200(g)

Z 70

Print date: 15.06.2015
Page 3 of 3

Personal precautions, protective equipment and emergency procedures

Provide adequate ventilation. Do not breathe gas/fumes/vapour/spray. Avoid contact with skin, eyes and clothes. Wear personal protection equipment.

Environmental precautions

Do not allow to enter into surface water or drains.

Methods and material for containment and cleaning up

Absorb with liquid-binding material (e.g. sand, diatomaceous earth, acid- or universal binding agents).
Treat the recovered material as prescribed in the section on waste disposal. Provide adequate ventilation.

Reference to other sections

See section 8.

7. Handling and storage

Precautions for safe handling

Advice on safe handling
Do not breathe gas/fumes/vapour/spray. Handle and open container with care.

Conditions for safe storage, including any incompatibilities

Requirements for storage rooms and vessels
Keep container tightly closed. Keep only in the original container in a cool, well-ventilated place.

Advice on storage compatibility
Do not store together with: Food and fodder

8. Exposure controls/personal protection

Control parameters

Exposure limits

<table>
<thead>
<tr>
<th>CAS No.</th>
<th>Substance</th>
<th>ppm</th>
<th>mg/m³</th>
<th>V/CC</th>
<th>Category</th>
<th>Origin</th>
</tr>
</thead>
<tbody>
<tr>
<td>123-31-9</td>
<td>Hydroquinone</td>
<td>2</td>
<td>1</td>
<td>TWA (8 h)</td>
<td>PEL</td>
<td></td>
</tr>
<tr>
<td>137-05-3</td>
<td>Methyl-2-cyanoacrylate</td>
<td>2</td>
<td>18</td>
<td>TWA (8 h)</td>
<td>TLV</td>
<td>REL</td>
</tr>
<tr>
<td></td>
<td></td>
<td>4</td>
<td>16</td>
<td>STEL (15 min)</td>
<td>REL</td>
<td>REL</td>
</tr>
</tbody>
</table>

Exposure controls

Appropriate engineering controls
if handled uncovered, arrangements with local exhaust ventilation have to be used. Do not breathe gas/fumes/vapour/spray.

Protective and hygiene measures
Remove contaminated, saturated clothing immediately. Protect skin by using skin protective cream. After work, wash hands and face. When using do not eat or drink.

Eye/face protection
Tightly sealed safety glasses.

Hand protection
When handling with chemical substances, protective gloves must be worn with the CE-label including the four control digits.
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.
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.
Wear suitable protective clothing and gloves.
9. Physical and chemical properties

Information on basic physical and chemical properties

- Physical state: liquid
- Color: colourless
- Odor: stinging

Changes in the physical state
- Initial boiling point and boiling range: > 149 °C
- Flash point: 80 - 93,4 °C
- Density (at 25 °C): 1,07 - 1,2 g/cm³

10. Stability and reactivity

Reactivity

Chemical stability
- Refer to chapter 7. No further action is necessary.

Possibility of hazardous reactions

Incompatible materials
- None under normal use.

Hazardous decomposition products
- Carbon dioxide (CO₂), Carbon monoxide.

11. Toxicological Information

Information on toxicological effects

Acute toxicity

<table>
<thead>
<tr>
<th>CAS No.</th>
<th>Components</th>
<th>Exposure routes</th>
<th>Method</th>
<th>Dose</th>
<th>Species</th>
<th>Source</th>
</tr>
</thead>
<tbody>
<tr>
<td>123-31-9</td>
<td>1,1-dichloroethane; hydroquinone; quinone</td>
<td>oral</td>
<td>LD50</td>
<td>502 mg/kg</td>
<td>Rat</td>
<td>IUCLID</td>
</tr>
</tbody>
</table>

Irritation and corrosivity
- Irritant effect on the skin: Irritant.
- Cynacrylate! Danger! Skin and eyelids will stick together in seconds. Keep out of the reach of children.

Irritant effect on the eye: strongly irritant. Risk of serious damage to eyes.
# Safety Data Sheet
according to 29 CFR 1910.1200(g)

## 12. Ecological information
Further information
Do not allow to enter into surface water or drains.

## 13. Disposal considerations
**Waste treatment methods**
- **Advice on disposal**
  Dispose of waste according to applicable legislation.
- **Contaminated packaging**
  Non-contaminated packages may be recycled. Handle contaminated packages in the same way as the substance itself.

## 14. Transport information
**Marine transport (IMDG)**
Other applicable information
Not a hazardous material with respect to these transportation regulations.

**Air transport (ICAO)**

<table>
<thead>
<tr>
<th><strong>UN number:</strong></th>
<th>UN3334</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>UN proper shipping name:</strong></td>
<td>AVIATION REGULATED LIQUID, N.O.S. ethyl 2-cyanoacrylate</td>
</tr>
<tr>
<td><strong>Transport hazard class(es):</strong></td>
<td>9</td>
</tr>
<tr>
<td><strong>Packing:</strong></td>
<td>III</td>
</tr>
<tr>
<td><strong>Hazard label:</strong></td>
<td>9</td>
</tr>
<tr>
<td><strong>Limited quantity Passenger:</strong></td>
<td>30 kg G</td>
</tr>
<tr>
<td><strong>IATA-packing instructions - Passenger:</strong></td>
<td>964</td>
</tr>
<tr>
<td><strong>IATA-max. quantity - Passenger:</strong></td>
<td>100 L</td>
</tr>
<tr>
<td><strong>IATA-packing instructions - Cargo:</strong></td>
<td>964</td>
</tr>
<tr>
<td><strong>IATA-max. quantity - Cargo:</strong></td>
<td>220 L</td>
</tr>
</tbody>
</table>

## 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:**
  - m-cresylate, 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 contains no chemicals known to the State of California to cause cancer, birth defects or other reproductive harm.

16. Other information

Revision date: 21.05.2015
Revision No: 4,04

Other data
The information is based on present levels of our knowledge. It does not, however, give assurances of product properties and establishes no contract legal rights.

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