1. Identification

Product identifier

EP150

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 Baldwin Messtechnik GmbH
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(0)6131 19240

2. Hazard identification

Classification of the substance or mixture

Regulation (EC) No. 1272/2008
Flammable liquid: Flam. Liq. 2
Skin corrosion/irritation: Skin Irrit. 2
Serious eye damage/eye irritation: Eye Irrit. 2
Respiratory or skin sensitization: Skin Sens. 1
Specific target organ toxicity - single exposure: STOT SE 3 (narcotic effects)
Hazardous to the aquatic environment: Aquatic Chronic 3

Label elements

Regulation (EC) No. 1272/2008
Signal word: Danger
Pictograms:

Hazard statements

Highly flammable liquid and vapour.
Causes skin irritation.
May cause an allergic skin reaction.
Causes serious eye irritation.
May cause drowsiness or dizziness.
Harmful to aquatic life with long lasting effects.

Precautionary statements

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
Wear protective gloves/protective clothing/eye protection/face protection.
Take off contaminated clothing and wash it before reuse.
IF ON SKIN: Wash with plenty of water.
Avoid breathing dust/fume/gas/mist/vapours/spray.
Store in a well-ventilated place. Keep cool.

Special labelling of certain mixtures

Restricted to professional users.
### 3. Composition/information on ingredients

#### Mixtures

**Hazardous components**

<table>
<thead>
<tr>
<th>CAS No</th>
<th>Chemical name</th>
</tr>
</thead>
<tbody>
<tr>
<td>78-93-3</td>
<td>butanone; ethyl methyl ketone</td>
</tr>
<tr>
<td>25068-38-6</td>
<td>epoxy resin (number average molecular weight &lt;= 700), reaction product: bisphenol-A-(epichlorhydrin)</td>
</tr>
<tr>
<td>123-42-2</td>
<td>4-hydroxy-4-methylpentan-2-one, diacetone alcohol</td>
</tr>
<tr>
<td>1330-20-7</td>
<td>xylene</td>
</tr>
<tr>
<td>80-08-0</td>
<td>4,4’-diamino diphenyl sulfone, dapsone</td>
</tr>
</tbody>
</table>

**Quantity**

- 35 - < 40 %
- 20 - < 25 %
- 15 - < 20 %
- 10 - < 15 %
- 5 - < 10 %

**Further Information**

No information available.

### 4. First-aid measures

**Description of first aid measures**

**General information**

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

**After inhalation**

Provide fresh air. When in doubt or if symptoms are observed, get medical advice.

**After contact with skin**

After contact with skin, wash immediately with polyethylene glycol, followed by plenty of water. Take off immediately all contaminated clothing and wash it before reuse. Medical treatment necessary.

**After contact with eyes**

After contact with the eyes, rinse with water with the eyelids open for a sufficient length of time, then consult an ophthalmologist immediately.

**After ingestion**

Rinse mouth immediately and drink plenty of water.

**Most important symptoms and effects, whether acute or delayed**

No information available.

**Indication of immediate medical attention and special treatment needed**

Treat symptomatically.

### 5. Fire-fighting measures

**Extinguishing media**

- **Suitable extinguishing media**
  - Carbon dioxide (CO2), Foam, Extinguishing powder.

- **Unsuitable extinguishing media**
  - Water.

**Specific hazards arising from the hazardous product**

Highly flammable. Vapours can form explosive mixtures with air.

**Special protective equipment and precautions for fire-fighters**

Wear a self-contained breathing apparatus and chemical protective clothing. Full protection suit.
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**

Remove all sources of ignition. Do not breathe gas/fumes/vapour/spray. Avoid contact with skin, eyes and clothes. Use personal protection equipment.

**Environmental precautions**

Do not allow uncontrolled discharge of product into the environment. Danger of explosion

**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.

**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**

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

**Advice on protection against fire and explosion**

Keep away from sources of ignition - No smoking. Take precautionary measures against static discharges. Vapours can form explosive mixtures with air.

**Further information on handling**

Keep container tightly closed. Keep in a cool, well-ventilated place. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

**Conditions for safe storage, including any incompatibilities**

Keep container tightly closed. Keep in a cool, well-ventilated place. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

**Hints on joint storage**

Do not store together with: Oxidising agent, strong, Combustible substances of acute toxicity, category 1 and 2, very toxic substances Non-combustible substances of acute toxicity, category 1 and 2, very toxic substances

**Further information on storage conditions**

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

8. Exposure controls/Personal protection

**Control parameters**

Additional advice on limit values

No information available.

**Exposure controls**
Appropriate engineering controls
If handled uncovered, arrangements with local exhaust ventilation should be used if possible.
In use, may form flammable/explosive vapour-air mixture.
Use explosion-proof electrical equipment.

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.
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.
EN 374

Skin protection
Used working clothes should not be worn outside the work area.
Separate storage of work clothes.
Wear anti-static footwear and clothing

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.
The vapour of the product is heavier than air and may accumulate below ground level, in pits, channels and basements in higher concentration.

9. Physical and chemical properties

Information on basic physical and chemical properties

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Physical state</td>
<td>Liquid</td>
</tr>
<tr>
<td>Colour</td>
<td>transparent</td>
</tr>
<tr>
<td>Odour</td>
<td>Adhesives, sealants</td>
</tr>
<tr>
<td>pH-Value</td>
<td>not determined</td>
</tr>
</tbody>
</table>

Changes in the physical state

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Melting point</td>
<td>not determined</td>
</tr>
<tr>
<td>Initial boiling point and boiling range</td>
<td>80 °C</td>
</tr>
<tr>
<td>Sublimation point</td>
<td>not determined</td>
</tr>
<tr>
<td>Softening point</td>
<td>not determined</td>
</tr>
<tr>
<td>Pour point</td>
<td>not determined</td>
</tr>
<tr>
<td>Flash point</td>
<td>-4 °C</td>
</tr>
</tbody>
</table>
Sustaining combustion: No data available

**Flammability**
- Solid: not applicable
- Gas: not applicable

**Explosive properties**
- No information available.
  - Lower explosive limits: 0.7 vol. %
  - Upper explosive limits: 11.5 vol. %
  - Ignition temperature: 465 °C

**Auto-ignition temperature**
- Solid: not applicable
- Gas: not applicable

**Decomposition temperature:** not determined

**Oxidizing properties**
- Not oxidising.

**Vapour pressure**
- (at 20 °C): 8 hPa
- (at 50 °C): 9 hPa

**Density (at 20 °C):** 0.934 g/cm³

**Water solubility:** The study does not need to be conducted because the substance is known to be insoluble in water.

**Solubility in other solvents**
- not determined

**Partition coefficient:** not determined

**Viscosity / dynamic:** not determined

**Viscosity / kinematic:** not determined

**Flow time:** not determined

**Vapour density:** not determined

**Evaporation rate:** not determined

**Solvent separation test:** 69.50 %

**Solvent content:** not determined

### 10. Stability and reactivity

**Reactivity**
- Highly flammable.

**Chemical stability**
- The product is stable under storage at normal ambient temperatures.

**Possibility of hazardous reactions**
- No known hazardous reactions.

**Conditions to avoid**
- Keep away from sources of heat (e.g. hot surfaces), sparks and open flames. Vapours can form explosive...
mixtures with air.

**Incompatible materials**

No information available.

**Hazardous decomposition products**

No known hazardous decomposition products.

**Further information**

No information available.

### 11. Toxicological information

#### Information on toxicological effects

**Acute toxicity**

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

<table>
<thead>
<tr>
<th>CAS No</th>
<th>Chemical name</th>
<th>Route of exposure</th>
<th>Dose</th>
<th>Species</th>
<th>Source</th>
<th>Method</th>
</tr>
</thead>
<tbody>
<tr>
<td>123-42-2</td>
<td>4-hydroxy-4-methylpentan-2-one, diacetone alcohol</td>
<td>oral</td>
<td>LD50</td>
<td>Rat</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>mg/kg</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>dermal</td>
<td>LD50</td>
<td>Rabbit</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>mg/kg</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>1330-20-7</td>
<td>xylene</td>
<td>dermal</td>
<td>ATE</td>
<td>1100</td>
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<td></td>
<td></td>
<td></td>
<td>mg/kg</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>inhalation vapour</td>
<td>ATE</td>
<td>11</td>
<td></td>
<td>mg/l</td>
</tr>
<tr>
<td></td>
<td></td>
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<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>inhalation aerosol</td>
<td>ATE</td>
<td>1,5</td>
<td></td>
<td>mg/l</td>
</tr>
<tr>
<td></td>
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<td></td>
</tr>
<tr>
<td>80-08-0</td>
<td>4,4’-diamino diphenyl sulfone, dapsone</td>
<td>oral</td>
<td>ATE</td>
<td>500</td>
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<tr>
<td></td>
<td></td>
<td></td>
<td>mg/kg</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Irritation and corrosivity**

Causes skin irritation.

Causes serious eye irritation.

**Sensitizing effects**

May cause an allergic skin reaction. (epoxy resin (number average molecular weight <= 700), reaction product: bisphenol-A-(epichlorhydrin))

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

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

**STOT-single exposure**

May cause drowsiness or dizziness. (butanone; ethyl methyl ketone)

**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.

**Specific effects in experiment on an animal**

No information available.

**Additional information on tests**

The mixture is classified as hazardous according to regulation (EC) No 1272/2008 [CLP].

**Practical experience**
12. Ecological information

Ecotoxicity
@1501.B015605

Persistence and degradability
The product has not been tested.

Bioaccumulative potential
The product has not been tested.

Mobility in soil
The product has not been tested.

Other adverse effects
No information available.

Further information
Do not allow to enter into surface water or drains. Do not allow to enter into soil/subsoil.

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

Canadian TDG

UN/ID number: UN 1133
Proper shipping name: Adhesives
Hazard classes: 3
Packing group: III
Hazard label: 3
Limited quantity: 5L

Marine transport (IMDG)

UN number: UN 1133
United Nations proper shipping name: Adhesives
Transport hazard class(es): 3
Packing group: III
Hazard label: 3
Limited quantity: 5 L
Expected quantity: E1
EmS: F-E, S-D

Air transport (ICAO-TI/IATA-DGR)

| UN number: | UN 1133 |
| United Nations proper shipping name: | Adhesives |
| Transport hazard class(es): | 3 |
| Packing group: | III |
| Hazard label: | 3 |

Limited quantity Passenger: 10 L
Passenger LQ: Y344
Expected quantity: E1

| IATA-packing instructions - Passenger: | 355 |
| IATA-max. quantity - Passenger: | 60 L |
| IATA-packing instructions - Cargo: | 366 |
| IATA-max. quantity - Cargo: | 220 L |

Environmental hazards
ENVIRONMENTALLY HAZARDOUS: no

15. Regulatory information

16. Other information

Abbreviations and acronyms
ADR: Accord européen sur le transport des marchandises dangereuses par Route
(IMDG: European Agreement concerning the International Carriage of Dangerous Goods by Road)
IMDG: International Maritime Code for Dangerous Goods
IATA: International Air Transport Association
GHS: Globally Harmonized System of Classification and Labelling of Chemicals
EINECS: European Inventory of Existing Commercial Chemical Substances
ELINCS: European List of Notified Chemical Substances
CAS: Chemical Abstracts Service
LC50: Lethal concentration, 50%
LD50: Lethal dose, 50%
<table>
<thead>
<tr>
<th>Classification</th>
<th>Classification procedure</th>
</tr>
</thead>
<tbody>
<tr>
<td>Flam. Liq. 2; H225</td>
<td>On basis of test data</td>
</tr>
<tr>
<td>Skin Irrit. 2; H315</td>
<td>Calculation method</td>
</tr>
<tr>
<td>Eye Irrit. 2; H319</td>
<td>Calculation method</td>
</tr>
<tr>
<td>Skin Sens. 1; H317</td>
<td>Calculation method</td>
</tr>
<tr>
<td>STOT SE 3; H336</td>
<td>Calculation method</td>
</tr>
<tr>
<td>Aquatic Chronic 3; H412</td>
<td>Calculation method</td>
</tr>
</tbody>
</table>

**Further Information**

The information is based on present level of our knowledge. It does not, however, give assurances 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 hazardous ingredients were taken respectively from the last version of the sub-contractor's safety data sheet.)*