## SECTION 1: Identification of the substance/mixture and of the company/undertaking

### 1.1. Product identifier

P250

UFI: HJ10-9065-900W-R039

### 1.2. Relevant identified uses of the substance or mixture and uses advised against

**Use of the substance/mixture**

Adhesives, sealants

### 1.3. 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 |

### 1.4. Emergency telephone number:

+49-30-18412-0

## SECTION 2: Hazards identification

### 2.1. Classification of the substance or mixture

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

Hazard categories:
Flammable liquid: Flam. Liq. 2
Respiratory or skin sensitisation: Skin Sens. 1
Hazard Statements:
Highly flammable liquid and vapour.
May cause an allergic skin reaction.

### 2.2. Label elements

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

**Hazard components for labelling**

methenamine; hexamethylenetetramine

**Signal word:** Danger

**Pictograms:**

**Hazard statements**

| | |
|---|---|
| H225 | Highly flammable liquid and vapour. |
| H317 | May cause an allergic skin reaction. |

**Precautionary statements**

| | |
|---|---|
| P210 | Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. |
| P261 | Avoid breathing dust/fume/gas/mist/vapours/spray. |
| P280 | Wear protective gloves/protective clothing/eye protection/face protection/hearing protection. |

**Special labelling of certain mixtures**

Restricted to professional users.

**Labelling of packages where the contents do not exceed 125 ml**

**Signal word:** Danger

**Pictograms:**

**Hazard statements**

H317

**Precautionary statements**

P261-P280

### 2.3. Other hazards

No information available.

## SECTION 3: Composition/information on ingredients

### 3.2. Mixtures

**Hazardous components**

| CAS No | Chemical name | | | Quantity |
|---|---|---|---|---|
| | EC No | Index No | REACH No | |
| | GHS Classification | | | |
| 100-97-0 | methenamine; hexamethylenetetramine | | | 1 - < 5 % |
| | 202-905-8 | 612-101-00-2 | | |
| | Flam. Sol. 2, Skin Sens. 1; H228 H317 | | | |
| 108-95-2 | phenol; carbolic acid; monohydroxybenzene; phenylalcohol | | | < 1 % |
| | 203-632-7 | 604-001-00-2 | | |
| | Muta. 2, Acute Tox. 3, Acute Tox. 3, Acute Tox. 3, Skin Corr. 1B, STOT RE 2; H341 H331 H311 H301 H314 H373 | | | |

Full text of H and EUH 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 | | |
| 108-95-2 | 203-632-7 | phenol; carbolic acid; monohydroxybenzene; phenylalcohol | < 1 % |
| | inhalation: ATE = 3 mg/l (vapours); inhalation: ATE = 0,5 mg/l (dusts or mists); dermal: ATE = 300 mg/kg; oral: ATE = 100 mg/kg Skin Corr. 1B; H314: >= 3 - 100 Skin Irrit. 2; H315: >= 1 - < 3 Eye Irrit. 2; H319: >= 1 - < 3 | | |

**Further Information**

No information available.

## SECTION 4: First aid measures

### 4.1. 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**

When in doubt or if symptoms are observed, get medical advice.
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**

Rinse mouth immediately and drink plenty of water. Never give anything by mouth to an unconscious person or a person with cramps. Do NOT induce vomiting.

**4.2. Most important symptoms and effects, both acute and delayed**

No information available.

**4.3. Indication of any immediate medical attention and special treatment needed**

No information available.

## SECTION 5: Firefighting measures

**5.1. Extinguishing media**

**Suitable extinguishing media**

Water spray jet, Dry extinguishing powder, Foam

**Unsuitable extinguishing media**

Full water jet

**5.2. Special hazards arising from the substance or mixture**

Highly flammable.
Vapours can form explosive mixtures with air.
Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

**5.3. Advice for firefighters**

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.

## SECTION 6: Accidental release measures

**6.1. Personal precautions, protective equipment and emergency procedures**

**General measures**

Remove all sources of ignition. Provide adequate ventilation. Do not breathe gas/fumes/vapour/spray. Avoid contact with skin, eyes and clothes. Use personal protection equipment. Use personal protection equipment. Do not allow to enter into surface water or drains. Treat the recovered material as prescribed in the section on waste disposal. Provide adequate ventilation.

**6.2. Environmental precautions**

Do not allow to enter into surface water or drains.
Do not allow uncontrolled discharge of product into the environment.

**6.3. 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).

**6.4. Reference to other sections**

Safe handling: see section 7
Personal protection equipment: see section 8
Disposal: see section 13

## SECTION 7: Handling and storage

### 7.1. 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.

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

**Advice on protection against fire and explosion**

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. In case of insufficient ventilation and/or through use, explosive/highly flammable mixtures may develop.

**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.

### 7.2. Conditions for safe storage, including any incompatibilities

**Requirements for storage rooms and vessels**

Keep container tightly closed and in a well-ventilated place.

Do not allow to enter into surface water or drains.

Do not allow uncontrolled discharge of product into the environment.

**Hints on joint storage**

TRGS 510

**Further information on storage conditions**

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

### 7.3. Specific end use(s)

Adhesives, sealants

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

**Occupational exposure limits**

| CAS No | Substance | ppm | mg/m³ | fib/cm³ | Category | Origin |
|---|---|---|---|---|---|---|
| 64-17-5 | Ethanol | 1000 | - | | STEL (15 min) | |
| 108-95-2 | Phenol | 2 | 8 | | TWA (8 h) | |
| | | 4 | 16 | | STEL (15 min) | |

**Biological limit values**

| CAS No | Substance | Parameter | Value | Test material | Sampling time |
|---|---|---|---|---|---|
| 108-95-2 | Phenol | Phenol | 120 mg/g | Creatinine | End of shift |

**Additional advice on limit values**

No information available.

### 8.2. 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.
Use non-sparking tools.

**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: >= 0,7mm
Suitable gloves type NBR (Nitrile rubber)
Breakthrough time::>480 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.
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.

## SECTION 9: Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

| | | |
|---|---|---|
| Physical state: | viscous | |
| Colour: | yellow | |
| Odour: | fruity | |
| pH-Value: | | not determined |

**Changes in the physical state**

| | |
|---|---|
| Melting point: | not determined |
| Boiling point or initial boiling point and boiling range: | 78 °C |
| Sublimation point: | not determined |
| Softening point: | not determined |
| Pour point: | not determined |
| not determined: | |
| Flash point: | 12 °C |
| Sustaining combustion: | No data available |

**Flammability**

| | |
|---|---|
| Solid/liquid: | not determined |
| Gas: | not determined |

**Explosive properties**

In use, may form flammable/explosive vapour-air mixture.

| | |
|---|---|
| Lower explosion limits: | not determined |
| Upper explosion limits: | not determined |
| Auto-ignition temperature: | 400 °C |

**Self-ignition temperature**

| | |
|---|---|
| Solid: | not determined |
| Gas: | not determined |
| Decomposition temperature: | not determined |

**Oxidizing properties**

not determined

| | |
|---|---|
| Vapour pressure: (at 20 °C) | 58 hPa |
| Vapour pressure: (at 50 °C) | not determined |
| Density (at 20 °C): | not determined |
| Bulk density: | not determined |
| Water solubility: | not determined |

**Solubility in other solvents**

not determined

| | |
|---|---|
| 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: | 60,00 % |

**9.2. Other information**

| | |
|---|---|
| Solid content: | 3,90 % |

## SECTION 10: Stability and reactivity

**10.1. Reactivity**

No information available.

**10.2. Chemical stability**

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

**10.3. Possibility of hazardous reactions**

No hazardous reaction when handled and stored according to provisions.

**10.4. Conditions to avoid**

No information available.

**10.5. Incompatible materials**

No information available.

### 10.6. Hazardous decomposition products

No information available.

**Further information**

No information available.

## SECTION 11: Toxicological information

### 11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

**Acute toxicity**

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

| CAS No | Chemical name | | | | |
|---|---|---|---|---|---|
| | Exposure route | Dose | Species | Source | Method |
| 108-95-2 | phenol; carbolic acid; monohydroxybenzene; phenylalcohol | | | | |
| | oral | ATE 100 mg/kg | | | |
| | dermal | ATE 300 mg/kg | | | |
| | inhalation vapour | ATE 3 mg/l | | | |
| | inhalation aerosol | ATE 0,5 mg/l | | | |

**Irritation and corrosivity**

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

**Sensitising effects**

May cause an allergic skin reaction. (methenamine; hexamethylenetetramine)

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

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

**STOT-single exposure**

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

**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**

No information available.

**Practical experience**

No information available.

### 11.2. Information on other hazards

**Other information**

No information available.

**Further information**

No information available.

## SECTION 12: Ecological information

### 12.1. Toxicity

No information available.

| CAS No | Chemical name | | | | | |
|---|---|---|---|---|---|---|
| | Aquatic toxicity | Dose | [h] \| [d] | Species | Source | Method |
| 108-95-2 | phenol; carbolic acid; monohydroxybenzene; phenylalcohol | | | | | |
| | Acute algae toxicity | ErC50 229 mg/l | 72 h | | GESTIS | |

**12.2. Persistence and degradability**

No information available.

**12.3. Bioaccumulative potential**

No information available.

**Partition coefficient n-octanol/water**

| CAS No | Chemical name | Log Pow |
|---|---|---|
| 100-97-0 | methenamine; hexamethylenetetramine | - 2,8 |
| 108-95-2 | phenol; carbolic acid; monohydroxybenzene; phenylalcohol | 1,5 |

**12.4. Mobility in soil**

No information available.

**12.5. Results of PBT and vPvB assessment**

No information available.

**12.7. Other adverse effects**

No information available.

## SECTION 13: Disposal considerations

**13.1. Waste treatment methods**

**Disposal recommendations**

Dispose of waste according to applicable legislation.

## SECTION 14: Transport information

**Land transport (ADR/RID)**

**14.1. UN number:** UN 1133

**14.2. UN proper shipping name:** Adhesives

**14.3. Transport hazard class(es):** 3

**14.4. Packing group:** III

Hazard label: 3


Classification code: F1
Limited quantity: 5 L
Excepted quantity: E1
Transport category: 3
Tunnel restriction code: E

**Inland waterways transport (ADN)**

**14.1. UN number:** UN 1133

**14.2. UN proper shipping name:** Adhesives

**14.3. Transport hazard class(es):** 3

**14.4. Packing group:** III

Hazard label: 3

| | |
|---|---|
| Classification code: | F1 |
| Limited quantity: | 5 L |
| Excepted quantity: | E1 |

**Marine transport (IMDG)**

| | |
|---|---|
| **14.1. UN number:** | UN 1133 |
| **14.2. UN proper shipping name:** | Adhesives |
| **14.3. Transport hazard class(es):** | 3 |
| **14.4. Packing group:** | III |
| Hazard label: | 3 |

| | |
|---|---|
| Special Provisions: | 223, 955 |
| Limited quantity: | 5 L |
| Excepted quantity: | E1 |
| EmS: | F-E, S-D |

**Air transport (ICAO-TI/IATA-DGR)**

| | |
|---|---|
| **14.1. UN number:** | UN 1133 |
| **14.2. UN proper shipping name:** | Adhesives |
| **14.3. Transport hazard class(es):** | 3 |
| **14.4. Packing group:** | III |
| Hazard label: | 3 |

| | |
|---|---|
| Special Provisions: | A3 |
| Limited quantity Passenger: | 10 L |
| Passenger LQ: | Y344 |
| Excepted quantity: | E1 |
| IATA-packing instructions - Passenger: | 355 |
| IATA-max. quantity - Passenger: | 60 L |
| IATA-packing instructions - Cargo: | 366 |
| IATA-max. quantity - Cargo: | 220 L |

**14.5. Environmental hazards**

ENVIRONMENTALLY HAZARDOUS: No

**14.7. Maritime transport in bulk according to IMO instruments**

No transport as bulk according to IBC Code.

## SECTION 15: Regulatory information

**15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture**

**EU regulatory information**

Restrictions on use (REACH, annex XVII):

Entry 3

2010/75/EU (VOC): 60,3 %

| | |
|---|---|
| 2004/42/EC (VOC): | 60,3 % |
| Information according to 2012/18/EU (SEVESO III): | P5c FLAMMABLE LIQUIDS |

**National regulatory information**

| | |
|---|---|
| Employment restrictions: | Observe restrictions to employment for juveniles according to the 'juvenile work protection guideline' (94/33/EC). Observe employment restrictions under the Maternity Protection Directive (92/85/EEC) for expectant or nursing mothers. |
| Water hazard class (D): | 1 - slightly hazardous to water |

**15.2. Chemical safety assessment**

For this substance a chemical safety assessment has not been carried out.

## SECTION 16: Other information

**Changes**

This data sheet contains changes from the previous version in section(s): 1,3.

**Classification for mixtures and used evaluation method according to Regulation (EC) No. 1272/2008 [CLP]**

| Classification | Classification procedure |
|---|---|
| Flam. Liq. 2; H225 | On basis of test data |
| Skin Sens. 1; H317 | Calculation method |

**Relevant H and EUH statements (number and full text)**

| | |
|---|---|
| H225 | Highly flammable liquid and vapour. |
| H228 | Flammable solid. |
| H301 | Toxic if swallowed. |
| H311 | Toxic in contact with skin. |
| H314 | Causes severe skin burns and eye damage. |
| H317 | May cause an allergic skin reaction. |
| H331 | Toxic if inhaled. |
| H341 | Suspected of causing genetic defects. |
| H373 | May cause damage to organs through prolonged or repeated exposure. |

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