

**Safety data sheet**  
**according SS 586 : Part 3**

Date of issue: 31.08.2025

Version number 1

Revision: 21.08.2025

**1 Identification**

- **Product identifier**
- **Trade name: EP310N Komp. B**
- **Relevant identified uses of the substance or mixture and uses advised against**
- **Product category** PC1 Adhesives, sealants
- **Application of the substance / the mixture** Two-component adhesive

- **Details of the supplier of the safety data sheet**

- **Manufacturer/Supplier:**  
HOTTINGER BRUEL & KJAER UK LTD  
Advanced Manufacturing Park Technology Centre  
Brunel Way, Catcliffe, Rotherham  
South Yorkshire, S60 5WG  
United Kingdom  
Phone: +44 (0) 1145 512230  
Email: info@uk.hbm.com

- **Informing department:**  
Tel. +49(0)6131 19240  
EMail support-esa@hbkworld.com

- **Emergency telephone number:**  
Gift-Informationszentrum Nord, Göttingen  
Poison Information Center, Göttingen  
Tel.: +49 (0)551 19240  
(German and English only)

United Kingdom:  
National Poisons Information Service  
Emergency number: +44 844 892 0111

Poisons Information Centre of Ireland:  
+353 1 837 9964 for medical professionals  
+353 1 809 2166 for public inquiries  
CHEMTREC: +44 20 3807 3798 (24h emergency call).  
Outside continental USA please call CHEMTREC at +1-703-527-3887 (R-calls are accepted).

**2 Hazards identification**

- **Classification of the substance or mixture**



GHS02 flame

Flam. Liq. 2

H225 Highly flammable liquid and vapour.



GHS09 environment

Aquatic Chronic 2

H411 Toxic to aquatic life with long lasting effects.

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GHS07

Skin Irrit. 2

H315 Causes skin irritation.

Serious eye damage/irritation – Category 2A H319 Causes serious eye irritation.

Skin Sens. 1

H317 May cause an allergic skin reaction.

STOT SE 3

H336 May cause drowsiness or dizziness.

· **Label elements**

· **GHS label elements**

The product is classified and labelled according to the Globally Harmonised System (GHS).

· **Hazard pictograms**



GHS02 GHS07 GHS09

· **Signal word** Danger

· **Hazard-determining components of labelling:**

Formaldehyde, oligomeric reaction products with 1-chloro-2,3-epoxypropane and phenol acetone

· **Hazard statements**

H225 Highly flammable liquid and vapour.

H315 Causes skin irritation.

H319 Causes serious eye irritation.

H317 May cause an allergic skin reaction.

H336 May cause drowsiness or dizziness.

H411 Toxic to aquatic life with long lasting effects.

· **Precautionary statements**

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

P260 Do not breathe mist/vapours/spray.

P280 Wear protective gloves / eye protection / face protection.

P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower].

P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

· **Additional information:**

Please refer to further labelling elements in section 15 of this safety data sheet, if applicable.

· **Other hazards**

· **Results of PBT and vPvB assessment**

· **PBT:** Not applicable.

· **vPvB:** Not applicable.

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### 3 Composition/information on ingredients

- **Chemical characterisation: Mixtures**
- **Description:** Mixture of the substances listed below, possibly with undeclared additives.

- **Dangerous components:**

9003-36-5	Formaldehyde, oligomeric reaction products with 1-chloro-2,3-epoxypropane and phenol ⚠ Aquatic Chronic 2, H411; ⚠ Skin Irrit. 2, H315; Skin Sens. 1, H317	25 - 100%
67-64-1	acetone ⚠ Flam. Liq. 2, H225; ⚠ Eye Irrit. 2, H319; STOT SE 3, H336	25 - 50%

- **Additional information** For the wording of the listed hazard phrases refer to section 16.

### 4 First-aid measures

- **Description of first aid measures**
- **General information**  
 Personal protection for the First Aider.  
 If symptoms occur or in case of doubt consult a doctor.
- **After inhalation**  
 Supply fresh air and call for doctor for safety reasons.  
 In case of unconsciousness bring patient into stable side position for transport.
- **After skin contact**  
 Instantly wash with water and soap and rinse thoroughly.  
 In case of skin irritations or sensitizing effects, consult doctor.
- **After eye contact**  
 Rinse opened eye for several minutes under running water. If symptoms persist, consult doctor.  
 Remove contact lenses if possible.  
 Use eye protection.
- **After swallowing**  
 Rinse out mouth and then drink plenty of water.  
 In case of disorders get medical advice.
- **Most important symptoms and effects, both acute and delayed**  
 No further relevant information available.
- **Indication of any immediate medical attention and special treatment needed**  
 No further relevant information available.

### 5 Fire-fighting measures

- **Extinguishing media**
- **Suitable extinguishing agents**  
 Extinguishing powder, foam or water jet. Fight larger fires with water jet or alcohol-resistant foam.
- **For safety reasons unsuitable extinguishing agents** Water with a full water jet.
- **Special hazards arising from the substance or mixture**  
 Inhalation of combustion gases may cause serious health hazards.  
 During incomplete combustion carbon monoxide can be formed.  
 Formation of flammable mixtures of vapours with air possible.
- **Advice for firefighters**
- **Protective equipment:** Wear self-contained breathing apparatus.
- **Additional information**  
 Use water to keep fire exposed containers cool.

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If possible without risk, move containers from fire area.

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### 6 Accidental release measures

- **Personal precautions, protective equipment and emergency procedures**  
Wear protective equipment. Keep unprotected persons away.
- **For non-emergency personnel** Avoid contact with the product.
- **For emergency responders** Put on suitable personal protective equipment.
- **Environmental precautions:** Do not allow to enter drainage system, ground/soil and water bodies.
- **Methods and material for containment and cleaning up:**  
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders).  
Dispose of the material collected according to regulations.  
Ensure adequate ventilation.
- **Reference to other sections**  
See Section 7 for information on safe handling  
See Section 8 for information on personal protection equipment.  
See Section 13 for information on disposal.

### 7 Handling and storage

- **Precautions for safe handling**  
Ensure good ventilation/exhaustion at the workplace.  
Prevent formation of aerosols.
- **Information about protection against explosions and fires:**  
Keep ignition sources away - Do not smoke.  
Protect against electrostatic charges.
- **Conditions for safe storage, including any incompatibilities**
- **Storage**
- **Requirements to be met by storerooms and containers:**  
Store in cool location.  
Only store in suitable containers (e.g. containers authorised under dangerous goods legislation).
- **Information about storage in one common storage facility:** Store away from oxidising agents.
- **Further information about storage conditions:**  
Keep container tightly closed and store in a dry, cool and well ventilated place.  
Protect from frost.  
Protect from heat and direct sunlight.  
Protect from humidity and keep away from water.  
Keep container tightly sealed.  
Store in cool, dry conditions in well sealed containers.
- **Specific end use(s)** No further relevant information available.

### 8 Exposure controls/personal protection

- **Control parameters**
- **Components with limit values that require monitoring at the workplace:**  
WEL: workplace exposure limit  
OEL: Occupational Exposure Limit

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**67-64-1 acetone**

PEL (Singapore)	Short-term value: 2380 mg/m <sup>3</sup> , 1000 ppm Long-term value: 1780 mg/m <sup>3</sup> , 750 ppm
WSH (Singapore)	Short-term value: 2380 mg/m <sup>3</sup> , 1000 ppm Long-term value: 1780 mg/m <sup>3</sup> , 750 ppm
PEL (Malaysia)	Long-term value: 1187 mg/m <sup>3</sup> , 500 ppm
WEL (Great Britain)	Short-term value: 3620 mg/m <sup>3</sup> , 1500 ppm Long-term value: 1210 mg/m <sup>3</sup> , 500 ppm

· **Additional information:** The lists that were valid during the compilation were used as basis.

· **Exposure controls**

· **Personal protective equipment**

· **General protective and hygienic measures**

Keep away from foodstuffs, beverages and food.

Take off all contaminated clothing immediately.

Wash hands during breaks and at the end of the work.

Avoid contact with the eyes and skin.

Wash contaminated clothing before re-use.

· **Breathing equipment:**

In case of brief exposure or low pollution use breathing filter apparatus. In case of intensive or longer exposure use breathing apparatus that is independent of circulating air.

· **Protection of hands:**



Protective gloves.

Only use chemical-protective gloves with CE-labelling of category III (EN 374).

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation. Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

· **Material of gloves**

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

Butyl rubber, BR

Recommended material thickness: 0.7 mm, breakthrough time: 480 min.

· **Penetration time of glove material**

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

· **Eye protection:**



Tightly sealed safety glasses.

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Face protection

### 9 Physical and chemical properties

#### · Information on basic physical and chemical properties

##### · General Information

- |   |                              |
|---|------------------------------|
| · <b>Physical state</b>                           | Liquid                       |
| · <b>Colour:</b>                                  | Yellowish                    |
| · <b>Odour:</b>                                   | Acetone-like                 |
| · <b>Odour threshold:</b>                         | Not determined.              |
| · <b>pH-value:</b>                                | Not determined.              |
| · <b>Melting point/freezing point:</b>            | Not determined               |
| · <b>Initial boiling point and boiling range:</b> | 56.1 °C                      |
| · <b>Flash point:</b>                             | < -20 °C                     |
| · <b>Evaporation rate</b>                         | Not determined.              |
| · <b>Inflammability (solid, gaseous)</b>          | Highly flammable.            |
| · <b>Critical values for explosion:</b>           |                              |
| · <b>Lower:</b>                                   | Not determined.              |
| · <b>Upper:</b>                                   | Not determined.              |
| · <b>Vapour pressure:</b>                         | Not determined.              |
| · <b>Vapour density</b>                           | Not determined.              |
| · <b>Density at 20 °C</b>                         | 0.82 g/cm <sup>3</sup>       |
| · <b>Relative density</b>                         | Not determined.              |
| · <b>Solubility in / Miscibility with</b>         |                              |
| · <b>Water:</b>                                   | Fully miscible               |
| · <b>Partition coefficient: n-octanol/water:</b>  | Not determined.              |
| · <b>Auto-ignition temperature:</b>               | Product is not selfigniting. |
| · <b>Decomposition temperature:</b>               | Not determined.              |
| · <b>SADT</b>                                     |                              |
| · <b>Viscosity:</b>                               |                              |
| · <b>kinematic:</b>                               | Not determined.              |
| · <b>dynamic:</b>                                 | Not determined.              |
| · <b>Particle characteristics</b>                 | No further details.          |

##### · Other information

- |  |   |
|--|---|
| · <b>Appearance:</b>   |   |
| · <b>Form:</b>   | Fluid   |
| · <b>Important information on protection of health and environment, and on safety.</b> |   |
| · <b>Self-inflammability:</b>  | Product is not selfigniting.  |
| · <b>Explosive properties:</b>   | Product is not explosive. However, formation of explosive air/steam mixtures is possible. |
| · <b>Solvent content:</b>  |   |
| · <b>Organic solvents:</b>   | 25.9 - 38.3 %   |

### 10 Stability and reactivity

- **Reactivity** No further relevant information available.

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- **Chemical stability**
- **Thermal decomposition / conditions to be avoided:**  
No decomposition if used according to specifications.
- **Possibility of hazardous reactions** No dangerous reactions known
- **Conditions to avoid** All sources of ignition: heat, sparks, open flame, electrostatic discharges.
- **Incompatible materials:** No further relevant information available.
- **Hazardous decomposition products:**  
None in case of intended use and storage in compliance with instructions.

### 11 Toxicological information

- **Information on toxicological effects**
- **Acute toxicity**

- **LD/LC50 values that are relevant for classification:**

#### 9003-36-5 Formaldehyde, oligomeric reaction products with 1-chloro-2,3-epoxypropane and phenol

Oral	LD50	> 5,000 mg/kg (Rat) (OECD 401)
Dermal	LD50	> 2,000 mg/kg (Rat) (OECD 402)

#### 67-64-1 acetone

Oral	LD50	5,800 mg/kg (Rat)
Dermal	LD50	> 7,426 mg/kg (guinea pig) (21 CFR 191.10)
		> 7,426 mg/kg (rabbit) (21 CFR 191.10)
Inhalative	LC50	132 mg/l/3h (Rat)

- **Primary irritant effect:**
- **Skin corrosion/irritation** Irritant to skin and mucous membranes.
- **Serious eye damage/irritation** Irritant effect.
- **Respiratory or skin sensitisation** Sensitization possible by skin contact.
- **Additional toxicological information:**

The product shows the following dangers according to the calculation method of the General EC Classification Guidelines for Preparations as issued in the latest version:  
Irritant

- **Repeated dose toxicity**

#### 9003-36-5 Formaldehyde, oligomeric reaction products with 1-chloro-2,3-epoxypropane and phenol

Oral	NOAEL (90d)	250 mg/kg bw/day (Rat) (OECD 408)
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#### 67-64-1 acetone

Oral	NOAEL (90d)	3,100 mg/kg bw/day (Rat) (OECD 408)
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### 12 Ecological information

- **Toxicity**

- **Aquatic toxicity:**

#### 9003-36-5 Formaldehyde, oligomeric reaction products with 1-chloro-2,3-epoxypropane and phenol

EC50 (static)	> 1,000 mg/l/48h (Daphnia magna) (OECD 202)
LC50	> 1,000 mg/l/96h (Oncorhynchus mykiss) (OECD 203)

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**67-64-1 acetone**

EC50	> 10,000 mg/l/24h ( <i>Daphnia magna</i> )
LC50 (dynamic)	8,120 mg/l/96h ( <i>Pimephales promelas</i> ) (OECD 203)

- **Persistence and degradability** No further relevant information available.
- **Other information:** There are no data available about the preparation.
- **Bioaccumulative potential** No further relevant information available.
- **Mobility in soil** No further relevant information available.
- **Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.
- **Other adverse effects** No further relevant information available.
- **Additional ecological information:**
- **General notes:**  
 Water hazard class 2 (German Regulation) (Self-assessment): hazardous for water.  
 Do not allow product to reach ground water, water bodies or sewage system.  
 Danger to drinking water if even small quantities leak into soil.  
 Also poisonous for fish and plankton in water bodies.  
 Toxic for aquatic organisms

**13 Disposal considerations**

- **Waste treatment methods**
- **Recommendation**  
 Must not be disposed of together with household garbage. Do not allow product to reach sewage system.
- **Uncleaned packagings:**
- **Recommendation:**  
 Dispose of packaging according to regulations on the disposal of packagings.  
 Packagings that cannot be cleaned are to be disposed of in the same manner as the product.
- **Recommended cleaning agent:** Water, if necessary with cleaning agent.

**14 Transport information**

- **UN-Number**
- **ADR/RID, IMDG, IATA** UN1866
- **UN proper shipping name**
- **ADR/RID** 1866 RESIN SOLUTION, ENVIRONMENTALLY HAZARDOUS, special provision 640D
- **IMDG** RESIN SOLUTION, MARINE POLLUTANT
- **IATA** RESIN SOLUTION

- **Transport hazard class(es)**

- **ADR/RID**



- **Class** 3 (F1) Flammable liquids.

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· **Label** 3


· **IMDG**

· **Class** 3 Flammable liquids.

· **Label** 3

· **IATA**



· **Class** 3 Flammable liquids.  
Not Restricted.

· **Label** 3

· **Packing group**

· **ADR/RID, IMDG, IATA** II

· **Environmental hazards:** Product contains environmentally hazardous substances:  
EPOXY RESIN

· **Marine pollutant:** Symbol (fish and tree)

· **Special marking (ADR/RID):** Symbol (fish and tree)

· **Transport in bulk according to Annex II of Marpol and the IBC Code** Not applicable.

· **Transport/Additional information:**

· **ADR/RID**

· **Limited quantities (LQ)** 5L

· **Excepted quantities (EQ)** Code: E2  
Maximum net quantity per inner packaging: 30 ml  
Maximum net quantity per outer packaging: 500 ml

· **Transport category** 2

· **Tunnel restriction code** D/E

· **IMDG**

· **Limited quantities (LQ)** 5L

· **Excepted quantities (EQ)** Code: E2  
Maximum net quantity per inner packaging: 30 ml  
Maximum net quantity per outer packaging: 500 ml

· **Special precautions for user** Warning: Flammable liquids.

· **Kemler Number:** 33

· **EMS Number:** F-E, S-E

· **Stowage Category** B

· **UN "Model Regulation":** UN 1866 RESIN SOLUTION, 3, II, ENVIRONMENTALLY HAZARDOUS

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### 15 Regulatory information

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

· **Poisons Act - Schedule 1**

None of the ingredients is listed.

· **Poisons Act - Schedule 2, Group II**

None of the ingredients is listed.

· **Health Products Act - First Schedule - Psychotropic Substances**

None of the ingredients is listed.

· **Chemical safety assessment**

· **Seveso category**

E2 Hazardous to the Aquatic Environment

P5c FLAMMABLE LIQUIDS

· **Qualifying quantity (tonnes) for the application of lower-tier requirements** 200 t

· **Qualifying quantity (tonnes) for the application of upper-tier requirements** 500 t

· **National regulations**

· **Water hazard class:** Water hazard class 2 (Self-assessment): hazardous for water.

· **Substances of very high concern (SVHC) according to REACH, Article 57**

None of the ingredients is contained.

· **Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

### 16 Other information

These data are based on our present knowledge. However, they shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

· **Relevant phrases**

H225 Highly flammable liquid and vapour.

H315 Causes skin irritation.

H317 May cause an allergic skin reaction.

H319 Causes serious eye irritation.

H336 May cause drowsiness or dizziness.

H411 Toxic to aquatic life with long lasting effects.

· **Department issuing data specification sheet:**



This Safety Data Sheet has been drawn up in cooperation with:

DEKRA Assurance Services GmbH, Hanomagstr. 12, D-30449 Hanover, Germany,

phone: (+49) 511 42079 - 0, reach@dekra.com.

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· **Kit-Components:**

· **Abbreviations and acronyms:**

ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International Carriage of Dangerous Goods by Road)

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society)

LC50: Lethal concentration, 50 percent

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*LD50: Lethal dose, 50 percent**PBT: Persistent, Bioaccumulative and Toxic**SVHC: Substances of Very High Concern**vPvB: very Persistent and very Bioaccumulative**Flam. Liq. 2: Flammable liquids – Category 2**Skin Irrit. 2: Skin corrosion/irritation – Category 2**Eye Irrit. 2: Serious eye damage/eye irritation – Category 2**Serious eye damage/irritation – Category 2A: Serious eye damage/eye irritation – Category 2A**Skin Sens. 1: Skin sensitisation – Category 1**STOT SE 3: Specific target organ toxicity (single exposure) – Category 3**Aquatic Chronic 2: Hazardous to the aquatic environment - long-term aquatic hazard – Category 2***\* Data compared to the previous version altered.**

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