

**Safety Data Sheet**  
**according to HPR, Schedule 1**

Date of issue 01/21/2026

Version number 1

Revision: 08/21/2025

**1 Identification**

- **Product identifier**
- **Trade name: EP310N Komp. A**
- **Other means of identification**
- **Article number: 1-EP310N**
- **Application of the substance / the mixture** Two-component adhesive
- **Details of the supplier of the safety data sheet**
- **Manufacturer/Supplier:**  
Hottinger Brüel & Kjaer GmbH  
Im Tiefen See 45  
D-64293 Darmstadt  
Germany  
Tel: +49 6151 803 0  
E-Mail: [info@hbkworld.com](mailto:info@hbkworld.com)  
<https://www.hbkworld.com>
- **Information department:**  
Tel. +49(0)6131 19240  
EMail [support-esa@hbkworld.com](mailto:support-esa@hbkworld.com)
- **Emergency telephone number:**  
Canada:  
+1 800 332 1414 (Alberta, NW Territories);  
+1 866 454 1212 (Saskatchewan);  
+1 403 944 1414 (Calgary, outside Alberta, VOIP users)  
Poison and Drug Information Services  
Foothills Medical Centre  
1403 29th Street N.W.  
T2N 2T9 Calgary  
  
National Capital Poison Center, U.S.A.:  
1-800-222-1222  
3201 New Mexico Ave Ste 310  
20016 Washington, DC  
USA  
CHEMTREC: +1 703-741-5970 (24h emergency call).  
Outside continental USA please call CHEMTREC at +1-703-527-3887 (R-calls are accepted).

**2 Hazard identification**

- **Classification of the substance or mixture**



GHS02 Flame

Flammable liquids – Category 2

H225 Highly flammable liquid and vapour.



GHS08 Health hazard

Sensitization - respiratory – Category 1

H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.

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GHS05 Corrosion

Eye damage/irritation – Category 1

H318 Causes serious eye damage.



GHS07

Sensitization - skin – Category 1

H317 May cause an allergic skin reaction.

Specific target organ toxicity (single exposure) – Category 3

H336 May cause drowsiness or dizziness.

· **Label elements**

· **GHS label elements**

The product is classified and labeled according to the Globally Harmonized System (GHS).

· **Hazard pictograms**



GHS02



GHS05



GHS07



GHS08

· **Signal word Danger**

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

benzene-1,2:4,5-tetracarboxylic dianhydride

Propanone-2

· **Hazard statements**

H225 Highly flammable liquid and vapour.

H318 Causes serious eye damage.

H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.

H317 May cause an allergic skin reaction.

H336 May cause drowsiness or dizziness.

· **Precautionary statements**

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

P240 Ground and bond container and receiving equipment.

P241 Use explosion-proof [electrical/ventilating/lighting] equipment.

P261 Avoid breathing dust/fume/gas/mist/vapours/spray.

P271 Use only outdoors or in a well-ventilated area.

P280 Wear protective gloves/protective clothing/eye protection/face protection/hearing protection.

P284 [In case of inadequate ventilation] wear respiratory protection.

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

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

P310 Immediately call a POISON CENTER/doctor.

P321 Specific treatment (see on this label).

P362+P364 Take off contaminated clothing and wash it before reuse.

P342+P311 If experiencing respiratory symptoms: Call a POISON CENTER/doctor.

P405 Store locked up.

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

**Additional information:**

Please refer to additional labeling elements in Section 15 of this Safety Data Sheet, if applicable.

### 3 Composition/Information on ingredients

**Chemical characterization: Mixtures**
**Description:** Mixture: consisting of the following components.

**Dangerous components:**

CAS: 67-64-1 RTECS: AL 3150000	Propanone-2	80 - 100% w/w *
CAS: 89-32-7 RTECS: DB 9300000	benzene-1,2:4,5-tetracarboxylic dianhydride	5 - 10% w/w *

\* Actual concentration ranges are withheld as a trade secret.

### 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 to be sure call for a doctor.

In case of unconsciousness place patient stably in side position for transportation.

**After skin contact:**

Immediately wash with water and soap and rinse thoroughly.

If skin irritation continues, consult a doctor.

**After eye contact:**

Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.

Remove contact lenses if possible.

Do not rub eyes dry, the mechanical stress can cause additional cornea damages.

Protect unharmed eye.

**After swallowing:**

Rinse out mouth and then drink plenty of water.

If symptoms persist consult doctor.

**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:**

Foam, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

**For safety reasons unsuitable extinguishing agents:**

Water with full jet

The use of a water jet may cause the fire to spread by splashing the burning product.

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- **Special hazards arising from the substance or mixture**  
*During incomplete combustion carbon monoxide can be formed.  
 Inhalation of combustion gases may cause serious health hazards.  
 Formation of flammable mixtures of vapours with air possible.*
- **Advice for firefighters**
- **Protective equipment:** *Wear self-contained respiratory protective device.*
- **Additional information**  
*If possible without risk, move containers from fire area.  
 Use water to keep fire exposed containers cool.  
 Burning liquids can be extinguished by diluting with water.*

### 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:**  
*Dispose contaminated material as waste according to section 13.  
 Absorb with liquid-binding material (sand, diatomite, universal binders) and disposal in suitable containers.*
- **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 disposal information.*

### 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.*
- **Conditions for safe storage, including any incompatibilities**
- **Storage:**
- **Requirements to be met by storerooms and receptacles:**  
*Only store in suitable containers (e.g. containers authorised under dangerous goods legislation).*
- **Information about storage in one common storage facility:** *Store away from oxidizing agents.*
- **Further information about storage conditions:**  
*Keep container tightly closed and store in a dry, cool and well ventilated place.  
 Protect from heat and direct sunlight.*
- **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:**  
*PEL: Permissible Exposure Limit  
 REL: Recommended Exposure Limit  
 TLV: Threshold Limit Value*

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**67-64-1 Propanone-2**

EL	STEL: 500 ppm TWA: 250 ppm
EV	STEL: 750 ppm TWA: 500 ppm

- **Additional information:** The lists that were valid during the creation were used as basis.
- **Exposure controls**
- **Personal protective equipment:**
- **General protective and hygienic measures:**  
Keep away from foodstuffs, beverages and feed.  
Do not eat, drink, smoke or sniff while working.  
Wash hands before breaks and at the end of 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 respiratory filter device. In case of intensive or longer exposure use respiratory protective device that is independent of circulating air.
- **Protection of hands:**



Protective gloves

Only use chemical-protective gloves with CE-labeling of category III.  
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: 0.3 mm, breakthrough time: 480 min.  
Natural rubber, NR  
Recommended material thickness: 0.5 mm, breakthrough time: 10 min.
- **Penetration time of glove material**  
The exact break trough time has to be found out by the manufacturer of the protective gloves and has to be observed.
- **Eye protection:**



Tightly sealed goggles

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Face protection

### 9 Physical and chemical properties

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

##### · General Information

· Physical state	Liquid
· Color:	Yellowish
· Odor:	Acetone-like
· Odor threshold:	Not determined
· Melting point/Melting range:	Undetermined
· Boiling point/Boiling range:	56.1 °C
· Flammability:	Not determined
· Explosion limits:	
· Lower:	Not determined
· Upper:	Not determined
· Flash point:	< -20 °C
· Auto igniting:	Product is not selfigniting.
· Decomposition temperature:	Not determined
· SADT	
· pH-value:	Not applicable
· Viscosity:	
· Kinematic:	Not applicable
· Dynamic:	Not applicable
· Solubility in / Miscibility with	
· Water:	Soluble.
· Segregation coefficient (n-octanol/water):	Not determined
· Vapor pressure:	Not applicable
· Density at 20 °C:	0.82 g/cm <sup>3</sup>
· Relative density	Not determined
· Vapor density	Not applicable
· Particle characteristics	No further details.

##### · Other information

· Appearance:	
· Form:	Fluid
· Important information on protection of health and environment, and on safety.	
· Ignition temperature:	Product is not selfigniting.
· Danger of explosion:	Product does not present an explosion hazard.
· Solvent content:	
· Organic solvents:	92.1 %
· Change in condition	
· Evaporation rate	Not applicable.

### 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** No further relevant information available.
- **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:**

#### 67-64-1 Propanone-2

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)

#### 89-32-7 benzene-1,2:4,5-tetracarboxylic dianhydride

Oral	LD50	2,400 mg/kg (Mouse)
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- **Primary irritant effect:**
- **on the eye:** Irritating effect.
- **Sensitization:**  
Sensitization possible through inhalation.  
Sensitization possible through skin contact.
- **Additional toxicological information:**  
The product shows the following dangers according to internally approved calculation methods for preparations:  
Harmful
- **Carcinogenic categories**

- **IARC (International Agency for Research on Cancer)**

None of the ingredients is listed.

- **NTP (National Toxicology Program)**

None of the ingredients is listed.

### 12 Ecological information

- **Toxicity**

- **Aquatic toxicity:**

#### 67-64-1 Propanone-2

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

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- **Results of PBT and vPvB assessment**

- **PBT:** Not applicable

- **vPvB:** Not applicable

- **Other adverse effects**

- **Additional ecological information:**

- **General notes:**

Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

### 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.

Non contaminated packagings can be used for recycling.

Packagings that cannot be cleansed are to be disposed of in the same manner as the product.

- **Recommended cleansing agent:** Water, if necessary with cleansing agents.

### 14 Transport information

- **UN-Number**

- **DOT/TDG, ADR, IMDG, IATA**

UN1090

- **UN proper shipping name**

- **DOT/TDG**

Acetone mixture

- **ADR**

1090 Acetone mixture

- **IMDG, IATA**

ACETONE mixture

- **Transport hazard class(es)**

- **DOT/TDG (Transport dangerous goods):**



- **Class**

3 Flammable liquids

No hazardous good

- **Label**

3

- **ADR**



- **Class**

3 (F1) Flammable liquids

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· <b>Label</b>	3
· <b>IMDG</b>	
	
· <b>Class</b>	3 Flammable liquids
· <b>Label</b>	3
· <b>IATA</b>	
	
· <b>Class</b>	3 Flammable liquids
· <b>Label</b>	Not Restricted 3
· <b>Packing group</b>	II
· <b>DOT/TDG, ADR, IMDG, IATA</b>	II
· <b>Environmental hazards:</b>	Not applicable
· <b>Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code</b>	Not applicable
· <b>Transport/Additional information:</b>	
· <b>DOT/TDG</b>	
· <b>Quantity limitations</b>	On passenger aircraft/rail: 5 L On cargo aircraft only: 60 L
· <b>ADR</b>	
· <b>Excepted quantities (EQ)</b>	Code: E2 Maximum net quantity per inner packaging: 30 g Maximum net quantity per outer packaging: 500 g
· <b>IMDG</b>	
· <b>Limited quantities (LQ)</b>	1L
· <b>Excepted quantities (EQ)</b>	Code: E2 Maximum net quantity per inner packaging: 30 g Maximum net quantity per outer packaging: 500 g
· <b>Special precautions for user</b>	Warning: Flammable liquids
· <b>Hazard identification number (Kemler code):</b>	33
· <b>EMS Number:</b>	F-E, S-D
· <b>Stowage Category</b>	E
· <b>UN "Model Regulation":</b>	UN 1090 ACETONE MIXTURE, 3, II

### 15 Regulatory information

- **Safety, health and environmental regulations/legislation specific for the substance or mixture**  
No further relevant information available.

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· **Sara**· **Section 355 (extremely hazardous substances):**

None of the ingredient is listed.

· **Section 313 (Specific toxic chemical listings):**

None of the ingredients is listed.

· **TSCA (Toxic Substances Control Act):**

All components have the value ACTIVE.

· **Canadian substance listings:**· **Canadian Domestic Substances List (DSL)**

All ingredients are listed.

· **Canadian Non-Domestic Substances List (NDSL)**

None of the ingredients is listed.

· **Canadian Ingredient Disclosure list (limit 0.1%)**

None of the ingredients is listed.

· **Canadian Ingredient Disclosure list (limit 1%)**

67-64-1 | Propanone-2

· **Per- and polyfluoroalkyl substances (PFAS)**


None of the ingredients is listed.

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

### 16 Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

· **Department issuing SDS:**

 **DEKRA** 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:**· **Date of preparation** 01/21/2026· **Abbreviations and acronyms:**

IMDG: International Maritime Code for Dangerous Goods

DOT: US Department of Transportation

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

LD50: Lethal dose, 50 percent

PBT: Persistent, Bioaccumulative and Toxic

vPvB: very Persistent and very Bioaccumulative

· **\* Data compared to the previous version altered.**