

## EP310N-A

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**1. Identification****Product identifier**

EP310N-A

UFI: QKW5-1YTH-N5NU-Y2FD

**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 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

**Emergency telephone number:** +49-30-18412-0**2. Hazard identification****Classification of the substance or mixture****Regulation (EC) No. 1272/2008**

Flammable liquid: Flam. Liq. 2  
Serious eye damage/eye irritation: Eye Dam. 1  
Respiratory or skin sensitization: Resp. Sens. 1  
Respiratory or skin sensitization: Skin Sens. 1  
Specific target organ toxicity - single exposure: STOT SE 3 (narcotic effects)

**Label elements****Regulation (EC) No. 1272/2008****Signal word:** Danger**Pictograms:****Hazard statements**

Highly flammable liquid and vapour.  
May cause an allergic skin reaction.  
Causes serious eye damage.  
May cause allergy or asthma symptoms or breathing difficulties if inhaled.  
May cause drowsiness or dizziness.

**Precautionary statements**

Avoid breathing dust/fume/gas/mist/vapours/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.  
If experiencing respiratory symptoms: Call a POISON CENTER/doctor.

**Special labelling of certain mixtures**

Restricted to professional users.

**Labelling of packages where the contents do not exceed 125 ml****Signal word:** Danger

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## Pictograms:



## Hazard statements

H317-H318-H334

## Precautionary statements

P261-P280-P305+P351+P338-P342+P311

## Other hazards

No information available.

## 3. Composition/information on ingredients

## Mixtures

## Hazardous components

CAS No	Chemical name	Quantity
67-64-1	acetone; propan-2-one; propanone	90 - < 95 %
89-32-7	benzene-1,2:4,5-tetracarboxylic dianhydride; pyromellitic dianhydride	5 - < 10 %

Full text of H 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	
67-64-1	200-662-2	acetone; propan-2-one; propanone	90 - < 95 %
		inhalation: LC50 = 76 mg/l (vapours); dermal: LD50 = 20000 mg/kg; oral: LD50 = 5800 mg/kg	
89-32-7	201-898-9	benzene-1,2:4,5-tetracarboxylic dianhydride; pyromellitic dianhydride	5 - < 10 %
		oral: LD50 = 2250 mg/kg	

## 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 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.

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

No information available.

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

No information available.

**5. Fire-fighting measures****Extinguishing media****Suitable extinguishing media**

Water spray jet, Dry extinguishing powder, Foam

**Unsuitable extinguishing media**

Full water jet

**Specific hazards arising from the hazardous product**

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

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.

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.

**6. Accidental release measures****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.

**Environmental precautions**

Do not allow to enter into surface water or drains.

Do not allow uncontrolled discharge of product into the environment.

**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).

**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****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.

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**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.

**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**

No information available.

**Further information on storage conditions**

No information available.

**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.  
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:  $\geq 0,7\text{mm}$   
Suitable gloves type NBR (Nitrile rubber)  
Breakthrough time:  $>480\text{ min}$   
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.

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**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

The filter class must be suitable for the maximum contaminant concentration (gas/vapour/aerosol/particulates) that may arise when handling the product. If the concentration is exceeded, self-contained breathing apparatus must be used.

**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**

Physical state:

Colour: colourless

Odour: resin

pH-Value: not determined

**Changes in the physical state**

Melting point: not determined

Sublimation point: not determined

Softening point: not determined

Pour point: not determined

not determined:

Flash point: < -20 °C

Sustaining combustion: No data available

**Flammability**

Solid/liquid: not determined

Gas: not determined

**Explosive properties**

not explosive according to EU A.14

Lower explosive limits: 2,5 vol. %

Upper explosive limits: 14,3 vol. %

Auto-ignition temperature: 535 °C

**Self-ignition temperature**

Solid: not determined

Gas: not determined

Decomposition temperature: not determined

**Oxidizing properties**

There are no data available on the mixture itself.

Vapour pressure: 246 hPa  
(at 20 °C)

Vapour pressure: 814 hPa  
(at 50 °C)

Density (at 20 °C): 0,82 g/cm<sup>3</sup>

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Bulk density:	not determined
Water solubility:	not determined
<b>Solubility in other solvents</b>	
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:	92,10 %

**Other information**

Solid content:	7,90 %
No information available.	

**10. Stability and reactivity****Reactivity**

No information available.

**Chemical stability**

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

**Possibility of hazardous reactions**

No hazardous reaction when handled and stored according to provisions.

**Conditions to avoid**

No information available.

**Incompatible materials**

No information available.

**Hazardous decomposition products**

No information available.

**Further information**

No information available.

**11. Toxicological information****Information on toxicological effects****Toxicokinetics, metabolism and distribution**

No information available.

**Acute toxicity**

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

No information available.

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CAS No	Chemical name				
	Route of exposure	Dose	Species	Source	Method
67-64-1	acetone; propan-2-one; propanone				
	oral	LD50 mg/kg 5800	Rat	RTECS	
	dermal	LD50 mg/kg 20000	Rabbit	IUCLID	
	inhalation (4 h) vapour	LC50 76 mg/l	Rat		
89-32-7	benzene-1,2:4,5-tetracarboxylic dianhydride; pyromellitic dianhydride				
	oral	LD50 mg/kg 2250	Rat	GESTIS	

**Irritation and corrosivity**

Causes serious eye damage.

Skin corrosion/irritation: Based on available data, the classification criteria are not met.

**Sensitizing effects**

May cause allergy or asthma symptoms or breathing difficulties if inhaled. (benzene-1,2:4,5-tetracarboxylic dianhydride; pyromellitic dianhydride)

May cause an allergic skin reaction. (benzene-1,2:4,5-tetracarboxylic dianhydride; pyromellitic dianhydride)

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

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

No information available.

**STOT-single exposure**

May cause drowsiness or dizziness. (acetone; propan-2-one; propanone)

No information available.

**STOT-repeated exposure**

Repeated exposure may cause skin dryness or cracking.

No information available.

**Aspiration hazard**

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

No information available.

**Specific effects in experiment on an animal**

No information available.

**Additional information on tests**

No information available.

**Practical experience**

No information available.

**Information on other hazards****Other information**

No information available.

**Further information**

No information available.

**12. Ecological information****Ecotoxicity**

No information available.

**Persistence and degradability**

No information available.

**Bioaccumulative potential**

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No information available.

**Mobility in soil**

No information available.

**Other adverse effects**

No information available.

**Further information**

No information available.

**13. Disposal considerations****Waste treatment methods****Disposal recommendations**

Dispose of waste according to applicable legislation.

**Contaminated packaging**

Uncleaned empty containers may contain product gases which form explosive mixtures with air.

**14. Transport information****Canadian TDG**

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

**Marine transport (IMDG)**

<b><u>UN number:</u></b>	UN 1133
<b><u>United Nations proper shipping name:</u></b>	Adhesives
<b><u>Transport hazard class(es):</u></b>	3
<b><u>Packing group:</u></b>	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)**

<b><u>UN number:</u></b>	UN 1133
<b><u>United Nations proper shipping name:</u></b>	Adhesives
<b><u>Transport hazard class(es):</u></b>	3
<b><u>Packing group:</u></b>	III



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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

**Environmental hazards**

ENVIRONMENTALLY HAZARDOUS: No

**15. Regulatory information****Canadian regulations****16. Other information****Changes**

This data sheet contains changes from the previous version in section(s): 3,8,15.

**Classification for mixtures and used evaluation method according to GHS**

Classification	Classification procedure
Flam. Liq. 2; H225	On basis of test data
Eye Dam. 1; H318	Calculation method
Resp. Sens. 1; H334	Calculation method
Skin Sens. 1; H317	Calculation method
STOT SE 3; H336	Calculation method

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

H225 Highly flammable liquid and vapour.  
 H317 May cause an allergic skin reaction.  
 H318 Causes serious eye damage.  
 H319 Causes serious eye irritation.  
 H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.  
 H336 May cause drowsiness or dizziness.  
 EUH066 Repeated exposure may cause skin dryness or cracking.

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