

## EP 70 Komp. B

Revision date: 02/18/2021

Page 1 of 9

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

EP 70 Komp. B

UFI: 5R10-90JX-W00V-2P8E

**Recommended use of the chemical and restrictions on use****Use of the substance/mixture**

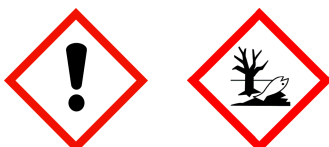
Adhesives, sealants

**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 phone number:** +49-30-18412-0**2. Hazard(s) identification****Classification of the chemical****Regulation (EC) No. 1272/2008**

Skin corrosion/irritation: Skin Irrit. 2  
Serious eye damage/eye irritation: Eye Irrit. 2  
Respiratory or skin sensitization: Skin Sens. 1  
Hazardous to the aquatic environment: Aquatic Chronic 2

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

Causes skin irritation  
May cause an allergic skin reaction  
Causes serious eye irritation  
Toxic to aquatic life with long lasting effects

**Precautionary statements**

Take off contaminated clothing and wash it before reuse.  
Avoid breathing dust/fume/gas/mist/vapors/spray.  
Avoid release to the environment.  
Wear protective gloves/protective clothing/eye protection/face protection.

**Special labelling of certain mixtures**

Restricted to professional users.

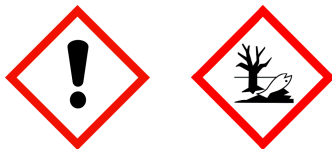
**Labelling of packages where the contents do not exceed 125 ml****Signal word:** Warning

## EP 70 Komp. B

Revision date: 02/18/2021

Page 2 of 9

## Pictograms:



## Hazard statements

H317

## Precautionary statements

P261-P280

**Hazards not otherwise classified**

No information available.

**3. Composition/information on ingredients****Mixtures****Hazardous components**

CAS No	Components	Quantity
25068-38-6	reaction product: bisphenol-A-(epichlorhydrin); epoxy resin (number average molecular weight <= 700)	50-100 %
2425-79-8	1,4-bis(2,3 epoxypropoxy)butane; butanedioldiglycidyl ether	10-25 %
9003-35-4	Formaldehyde, oligomeric reaction products with phenol	10-20 %

Full text of H and EUH statements: see section 16.

**Specific Conc. Limits, M-factors and ATE**

CAS No	EC No	Components	Quantity
		Specific Conc. Limits, M-factors and ATE	
25068-38-6	500-033-5	reaction product: bisphenol-A-(epichlorhydrin); epoxy resin (number average molecular weight <= 700)	50-100 %
		Skin Irrit. 2; H315: >= 5 - 100 Eye Irrit. 2; H319: >= 5 - 100	
2425-79-8	219-371-7	1,4-bis(2,3 epoxypropoxy)butane; butanedioldiglycidyl ether	10-25 %
		inhalation: ATE = 11 mg/l (vapours); inhalation: ATE = 1,5 mg/l (dusts or mists); dermal: ATE = 1100 mg/kg	

**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**

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**

If swallowed, rinse mouth with water (only if the person is conscious). If swallowed, do not induce vomiting: seek medical advice immediately and show this container or label.

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

No information available.

## EP 70 Komp. B

Revision date: 02/18/2021

Page 3 of 9

**Indication of any 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 chemical**

Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water.

**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/stream to protect personnel and to cool endangered containers. Suppress gases/vapors/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**

Do not breathe gas/vapor/spray. If handled uncovered, arrangements with local exhaust ventilation should be used if possible.

**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 (PPE): see section 8

Disposal: see section 13

**7. Handling and storage****Precautions for safe handling****Advice on safe handling**

If handled uncovered, arrangements with local exhaust ventilation should be used if possible. If technical exhaust or ventilation measures are not possible or insufficient, respiratory protection must be worn.

**Advice on protection against fire and explosion**

No special technical protective measures are necessary.

**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**

## EP 70 Komp. B

Revision date: 02/18/2021

Page 4 of 9

**Requirements for storage rooms and vessels**

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

**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**

To date, no national critical limit values exist.

**Exposure controls****Appropriate engineering controls**

If handled uncovered, arrangements with local exhaust ventilation should be used if possible.

If local exhaust ventilation is not possible or not sufficient, the entire working area should be ventilated by technical means.

**Protective and hygiene measures**

When using do not eat or drink. Do not breathe gas/fume/vapor/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.

**Skin protection**

Used working clothes should not be worn outside the work area. Separate storage of work clothes.

**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.

**9. Physical and chemical properties****Information on basic physical and chemical properties**

Physical state:

Liquid

Color:

colorless

## EP 70 Komp. B

Revision date: 02/18/2021

Page 5 of 9

Odor:	Solvents	
pH-Value:		not determined
<b>Changes in the physical state</b>		
Melting point/freezing point:		not determined
Boiling point or initial boiling point and boiling range:		-19 °C
Sublimation point:		not determined
Softening point:		not determined
Pour point:		not determined
not determined:		
Flash point:		129 °C
Sustaining combustion:		No data available
<b>Flammability</b>		
Solid/liquid:		not determined
Gas:		not determined
<b>Explosive properties</b>		
not determined		
Lower explosion limits:		7 vol. %
Upper explosion limits:		72 vol. %
Auto-ignition temperature:		not determined
<b>Self-ignition temperature</b>		
Solid:		not determined
Gas:		not determined
Decomposition temperature:		not determined
<b>Oxidizing properties</b>		
not determined		
Vapor pressure:		13,3 hPa
(at 20 °C)		
Vapor pressure:		not determined
Density (at 20 °C):		not determined
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:		not determined
<b>Other information</b>		
Solid content:		not determined
No information available.		

## EP 70 Komp. B

Revision date: 02/18/2021

Page 6 of 9

**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.

CAS No	Components				
	Exposure route	Dose	Species	Source	Method
2425-79-8	1,4-bis(2,3 epoxypropoxy)butane; butanedioldiglycidyl ether				
	dermal	ATE 1100 mg/kg			
	inhalation vapour	ATE 11 mg/l			
	inhalation aerosol	ATE 1,5 mg/l			

**Irritation and corrosivity**

Causes skin irritation

Causes serious eye irritation

No information available.

**Sensitizing effects**

May cause an allergic skin reaction (reaction product: bisphenol-A-(epichlorhydrin); epoxy resin (number average molecular weight <= 700); 1,4-bis(2,3 epoxypropoxy)butane; butanedioldiglycidyl ether; Formaldehyde, oligomeric reaction products with phenol)

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

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

**Specific target organ toxicity (STOT) - single exposure**

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

**Specific target organ toxicity (STOT) - repeated exposure**

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

Carcinogenicity (OSHA): No ingredient of this mixture is listed.

Carcinogenicity (IARC): No ingredient of this mixture is listed.

## EP 70 Komp. B

Revision date: 02/18/2021

Page 7 of 9

Carcinogenicity (NTP): No ingredient of this mixture is listed.

**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.

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

No information available.

**Further information**

No information available.

**12. Ecological information****Persistence and degradability**

No information available.

**Bioaccumulative potential**

No information available.

**Partition coefficient n-octanol/water**

CAS No	Components	Log Pow
9003-35-4	Formaldehyde, oligomeric reaction products with phenol	2,1

**Mobility in soil**

No information available.

**Other adverse effects**

No information available.

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

Dispose of waste according to applicable legislation.

**14. Transport information****US DOT 49 CFR 172.101****UN/ID number:**

UN 3082

**Proper shipping name:**

ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.

**Transport hazard class(es):**

9

**Packing group:**

III

Hazard label:

9

**Marine transport (IMDG)****UN number:**

UN 3082

**EP 70 Komp. B**

Revision date: 02/18/2021

Page 8 of 9

**UN proper shipping name:** ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.  
(reaction product:bisphenol-A-(epichlorhydrin) epoxy resin (number average molecular weight = 700), epoxy resin (bisphenol F/epichlorhydrine), WM<700)

**Transport hazard class(es):** 9

**Packing group:** III

Hazard label: 9



Special Provisions: 274, 335, 969  
 Limited quantity: 5 L  
 Excepted quantity: E1  
 EmS: F-A, S-F

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

**UN number:** UN 3082

**UN proper shipping name:** ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.  
(reaction product:bisphenol-A-(epichlorhydrin) epoxy resin (number average molecular weight = 700), epoxy resin (bisphenol F/epichlorhydrine), WM<700)

**Transport hazard class(es):** 9

**Packing group:** III

Hazard label: 9



Special Provisions: A97 A158 A197  
 Limited quantity Passenger: 30 kg G  
 Passenger LQ: Y964  
 Excepted quantity: E1  
 IATA-packing instructions - Passenger: 964  
 IATA-max. quantity - Passenger: 450 L  
 IATA-packing instructions - Cargo: 964  
 IATA-max. quantity - Cargo: 450 L

**Environmental hazards**

ENVIRONMENTALLY HAZARDOUS: Yes



**Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code**

No transport as bulk according to IBC Code.

**15. Regulatory information**

**U.S. Regulations**

**National regulatory information**

SARA Section 311/312 Hazards:  
 reaction product: bisphenol-A-(epichlorhydrin); epoxy resin (number average molecular weight <= 700) (25068-38-6): Immediate (acute) health hazard  
 1,4-bis(2,3 epoxypropoxy)butane; butanedioldiglycidyl ether (2425-79-8): Immediate (acute) health hazard



## EP 70 Komp. B

Revision date: 02/18/2021

Page 9 of 9

Formaldehyde, oligomeric reaction products with phenol (9003-35-4): Immediate (acute) health hazard

**State Regulations****Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65, State of California)**

This product can not expose you to chemicals known to the State of California to cause cancer, birth defects or other reproductive harm.

**16. Other information****Changes**

Revision date: 02/18/2021

Revision No: 1,2

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

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

Classification	Classification procedure
Skin Irrit. 2; H315	Calculation method
Eye Irrit. 2; H319	Calculation method
Skin Sens. 1; H317	Calculation method
Aquatic Chronic 2; H411	Calculation method

**Relevant H statements (full text)**

H312	Harmful in contact with skin
H315	Causes skin irritation
H317	May cause an allergic skin reaction
H319	Causes serious eye irritation
H332	Harmful if inhaled
H411	Toxic to aquatic life with long lasting effects

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