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1. Identification**Product identifier**

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

Relevant identified uses of the substance or mixture and uses advised against**Use of the substance/mixture**

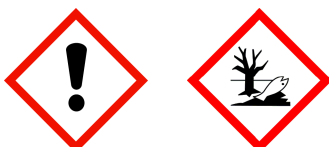
Adhesives, sealants

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**

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/vapours/spray.
Avoid release to the environment.
Wear protective gloves/protective clothing/eye protection/face protection.

Special labelling of certain mixtures

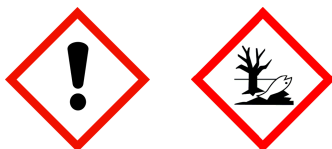
Restricted to professional users.

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

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Pictograms:**Hazard statements**

H317

Precautionary statements

P261-P280

Other hazards

No information available.

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

CAS No	Chemical name	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 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	
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, whether acute or delayed

No information available.

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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

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 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**

Do not breathe gas/vapour/aerosol. 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: 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

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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/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.

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

Colour:

colourless

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Odour:	Solvents	
pH-Value:		not determined
Changes in the physical state		
Melting 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
Flammability		
Solid/liquid:		not determined
Gas:		not determined
Explosive properties		
not determined		
Lower explosive limits:		7 vol. %
Upper explosive limits:		72 vol. %
Auto-ignition temperature:		not determined
Self-ignition temperature		
Solid:		not determined
Gas:		not determined
Decomposition temperature:		not determined
Oxidizing properties		
not determined		
Vapour pressure: (at 20 °C)		13,3 hPa
Vapour pressure:		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:		not determined
Other information		
Solid content:		not determined
No information available.		

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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	Chemical name				
	Route of exposure	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.

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.

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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	Chemical name	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**Canadian TDG****UN/ID number:**

UN 3082

Proper shipping name:

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

Hazard classes:

9

Packing group:

III

Hazard label:

9

Limited quantity:

5 L

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

UN 3082

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United Nations 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

United Nations 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



15. Regulatory information

Canadian regulations

16. Other information

Changes

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

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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 (number and 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.)