

X280-A

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## 1. Identification

### Product identifier

X280-A

### Relevant identified uses of the substance or mixture and uses advised against

#### Use of the substance/mixture

Klebstoffe, Dichtstoffe

#### Uses advised against

Es liegen keine Informationen vor.

### 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: +49(0)6131 19240 support@hbm.com

**Emergency telephone number:** 1703-741-5970

## 2. Hazard identification

### Classification of the substance or mixture

#### Regulation (EC) No 1272/2008

Acute Tox. 4; H302  
Skin Sens. 1; H317  
Muta. 2; H341  
STOT RE 2; H373  
Aquatic Chronic 2; H411

Full text of hazard statements: see SECTION 16.

### Label elements

#### Regulation (EC) No 1272/2008

**Signal word:** Warning

**Pictograms:**



#### Hazard statements

H302 Harmful if swallowed.  
H317 May cause an allergic skin reaction.  
H341 Suspected of causing genetic defects.  
H373 May cause damage to organs through prolonged or repeated exposure.  
H411 Toxic to aquatic life with long lasting effects.

#### Precautionary statements

P270 Do not eat, drink or smoke when using this product.  
P260 Do not breathe dust/fume/gas/mist/vapours/spray.  
P202 Do not handle until all safety precautions have been read and understood.  
P301+P312 IF SWALLOWED: Call a POISON CENTER/doctor if you feel unwell.

#### Special labelling of certain mixtures

Restricted to professional users.

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

H317-H341

**Other hazards**

Es liegen keine Informationen vor.

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

CAS No	Chemical name	Quantity
28768-32-3	4,4'-Methylenbis[N,N-bis(2,3-epoxypropyl)anilin]	30-50 %

Full text of H statements: see section 16.

**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.

**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

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**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 advice**

Do not breathe gas/vapour/aerosol.

Provide adequate ventilation as well as local exhaust at critical locations.

If technical exhaust or ventilation measures are not possible or insufficient, respiratory protection must be worn.

Use personal protection equipment.

Personal protection equipment: see section 8

**For non-emergency personnel**

Remove persons to safety.

**For emergency responders**

First aider: Pay attention to self-protection!

**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****For cleaning up**

Absorb with liquid-binding material (sand, diatomaceous earth, acid- or universal binding agents).

Take up mechanically, placing in appropriate containers for disposal.

**Reference to other sections**

Safe handling: see section 7

Wear personal protection equipment (refer to 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.

**Advice on protection against fire and explosion**

Löschmaßnahmen auf die Umgebung abstimmen.

**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 in a cool, well-ventilated place.

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**Hints on joint storage**

TRGS 510

**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:

Odour:

Adhesives, sealants

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pH-Value: not determined

**Changes in the physical state**

Melting point/freezing point: not determined

Boiling point or initial boiling point and boiling range: nicht bestimmt

Sublimation point: not determined

Softening point: not determined

Pour point: not determined

not determined:

Flash point: 228 °C

Sustaining combustion: No data available

**Flammability**

Solid/liquid: not determined

**Explosive properties**

not determined

Lower explosive limits: not determined

Upper explosive limits: not determined

Auto-ignition temperature: not determined

**Self-ignition temperature**

Solid: not determined

Gas: not determined

Decomposition temperature: not determined

**Oxidizing properties**

not determined

Vapour pressure: < 0,1 hPa  
(at 20 °C)Vapour pressure: not determined  
(at 50 °C)Density (at 20 °C): 1,17 g/cm<sup>3</sup>

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

#### **Acute toxicity**

Harmful if swallowed.

#### **ATEmix calculated**

ATE (oral) 1000 mg/kg; ATE (dermal) > 2000 mg/kg; ATE (inhalation vapour) > 20 mg/l; ATE (inhalation dust/mist) > 5 mg/l

#### **Irritation and corrosivity**

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

#### **Sensitizing effects**

May cause an allergic skin reaction. (4,4'-Methylenbis[N,N-bis(2,3-epoxypropyl)anilin])

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

Suspected of causing genetic defects.

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

Reproductive toxicity: 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**

May cause damage to organs through prolonged or repeated exposure.

#### **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

#### **Endocrine disrupting properties**

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This product does not contain a substance that has endocrine disrupting properties with respect to non-target organisms as no components meets the criteria.

**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**

No information available.

**Mobility in soil**

No information available.

**Endocrine disrupting properties**

This product does not contain a substance that has endocrine disrupting properties with respect to non-target organisms as no components meets the criteria.

**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.

**14. Transport information****Canadian TDG****UN number or 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

**United Nations proper shipping name:**ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.  
(Epoxy resin)**Transport hazard class(es):**

9

**Packing group:**

III

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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. (Epoxy resin)  
**Transport hazard class(es):** 9  
**Packing group:** III  
 Hazard label: 9



Special Provisions: A97 A158 A197 A215  
 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



Danger releasing substance: not applicable

**15. Regulatory information**

**Canadian regulations**

**16. Other information**

**Changes**

This data sheet contains changes from the previous version in section(s): 2,5,6,7,9,10,11,12,13,14.

**Classification for mixtures and used evaluation method according to regulation (EC) No 1272/2008**

Classification	Classification procedure
Acute Tox. 4; H302	Calculation method
Skin Sens. 1; H317	Calculation method
Muta. 2; H341	Calculation method
STOT RE 2; H373	Calculation method
Aquatic Chronic 2; H411	Calculation method

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

H302 Harmful if swallowed.



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H317	May cause an allergic skin reaction.
H341	Suspected of causing genetic defects.
H373	May cause damage to organs through prolonged or repeated exposure.
H411	Toxic to aquatic life with long lasting effects.

### Further Information

The information is based on the present level of our knowledge. It does not, however, give assurance of product properties and establishes no contract legal rights.

The receiver of our product is singularly responsible for adhering to existing laws and regulations.

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