

X120-B

Revision date: 03/17/2021

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## 1. Identification

### Product identifier

X120-B

UFI: WQY5-Y7KH-C7FX-J0JG

### 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  
Carcinogenicity: Carc. 2  
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  
Suspected of causing cancer  
Toxic to aquatic life with long lasting effects

#### Precautionary statements

If skin irritation or rash occurs:  
Get medical advice/attention.  
Wear protective gloves/protective clothing/eye protection/face protection.  
Avoid release to the environment.

#### 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-H351

## Precautionary statements

P313-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)	40 - 70 %
14228-73-0	1,4-Bis[(2,3-epoxypropoxy)methyl] cyclohexan	10 - 20 %
13463-67-7	titanium dioxide	1 - 5 %
67762-90-7	Dimethylsiloxan, reaktionsprodukt mit Siliciumdioxid	1 - 5 %
2530-83-8	[3-(2,3-Epoxypropoxy)propyl]trimethoxysilaan	1 - < 5 %
2602-34-8	3-(2,3-Epoxypropyloxy)propyltriethoxysilane	< 2 %

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)	40 - 70 %
		Skin Irrit. 2; H315: >= 5 - 100 Eye Irrit. 2; H319: >= 5 - 100	

**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.

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

No information available.

**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. 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 (PPE): see section 8

**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 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**

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.

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**Conditions for safe storage, including any incompatibilities****Requirements for storage rooms and vessels**

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

**Further information on storage conditions**

No information available.

**8. Exposure controls/personal protection****Control parameters****Exposure limits**

CAS No.	Substance	ppm	mg/m <sup>3</sup>	f/cc	Category	Origin
1333-86-4	Carbon black (in presence of polycyclic aromatic hydrocarbons (PAHs)) (as PAHs)	-	0.1		TWA (8 h)	REL
1333-86-4	Carbon black	-	3.5		TWA (8 h)	PEL
13463-67-7	Titanium dioxide Total dust	-	15		TWA (8 h)	PEL

**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**

not relevant

**Environmental exposure controls**

Do not allow to enter into surface water or drains.

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## 9. Physical and chemical properties

### Information on basic physical and chemical properties

Physical state:	solid	
Color:	black	
Odor:	Epoxy resin dispersions	
pH-Value:		not relevant

### **Changes in the physical state**

Melting point/freezing point:		not determined
Boiling point or initial boiling point and boiling range:		not determined
Sublimation point:		not determined
Softening point:		not determined
Pour point:		not determined
not determined:		
Flash point:		113 °C
Sustaining combustion:		No data available

### **Flammability**

Solid/liquid:		not determined
Gas:		not determined

### **Explosive properties**

not determined

Lower explosion limits:		not determined
Upper explosion limits:		not determined
Auto-ignition temperature:		not determined

### **Self-ignition temperature**

Solid:		not determined
Gas:		not determined

Decomposition temperature:		not determined
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### **Oxidizing properties**

not determined

Vapor pressure: (at 20 °C)		15,2 hPa
Vapor pressure: (at 50 °C)		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

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Solvent separation test: not determined

Solvent content: not determined

**Other information**

Solid content: 5,00 %

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.

**11. Toxicological information****Information on toxicological effects****Acute toxicity**

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

**Irritation and corrosivity**

Causes skin irritation

Causes serious eye irritation

**Sensitizing effects**

May cause an allergic skin reaction (reaction product: bisphenol-A-(epichlorhydrin); epoxy resin (number average molecular weight &lt;= 700); 1,4-Bis[(2,3-epoxypropoxy)methyl] cyclohexan)

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

Suspected of causing cancer (titanium dioxide)

Germ cell mutagenicity: Based on available data, the classification criteria are not met.

Reproductive toxicity: 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):

Titanium dioxide (CAS 13463-67-7) is listed in group 2B. Carbon black (CAS 1333-86-4) is listed in group 2B.

Carcinogenicity (NTP):

No ingredient of this mixture is listed.

**Aspiration hazard**

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

**12. Ecological information**

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CAS No	Components					
	Aquatic toxicity	Dose	[h]   [d]	Species	Source	Method
2530-83-8	[3-(2,3-Epoxypropoxy)propyl]trimethoxysilane					
	Acute fish toxicity	LC50	55 mg/l	96 h	Cyprinus carpio (Common Carp)	US-EPA
	Acute crustacea toxicity	EC50	324 mg/l	48 h	Daphnia magna (Big water flea)	US-EPA

**Persistence and degradability**

No information available.

**Bioaccumulative potential**

No information available.

**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 3077

**Proper shipping name:**

ENVIRONMENTALLY HAZARDOUS SUBSTANCES, SOLID, N.O.S.

**Transport hazard class(es):**

9

**Packing group:**

III

Hazard label:

9



**Marine transport (IMDG)**

**UN number:**

UN 3077

**UN proper shipping name:**

ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (EPOXY RESIN)

**Transport hazard class(es):**

9

**Packing group:**

III

Hazard label:

9



Special Provisions:

274, 335, 966, 967, 969

Limited quantity:

5 kg

Excepted quantity:

E1

EmS:

F-A, S-F

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

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**UN number:** UN 3077  
**UN proper shipping name:** ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.  
**Transport hazard class(es):** 9  
**Packing group:** III  
Hazard label: 9



Special Provisions: A97 A158 A179 A197  
Limited quantity Passenger: 30 kg G  
Passenger LQ: Y956  
Excepted quantity: E1  
IATA-packing instructions - Passenger: 956  
IATA-max. quantity - Passenger: 400 kg  
IATA-packing instructions - Cargo: 956  
IATA-max. quantity - Cargo: 400 kg

## **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)methyl] cyclohexan (14228-73-0): Immediate (acute) health hazard  
titanium dioxide (13463-67-7): Delayed (chronic) health hazard  
[3-(2,3-Epoxypropoxy)propyl]trimethoxysilaan (2530-83-8): Immediate (acute) health hazard

#### **State Regulations**

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

WARNING: This product can expose you to chemicals including Carbon black (airborne, unbound particles of respirable size) (cancer), which are known to the State of California to cause cancer, birth defects or other reproductive harm. For more information go to [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov).

## **16. Other information**

### **Changes**

Revision date: 03/17/2021

Revision No: 1,4

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



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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
Carc. 2; H351	Calculation method
Aquatic Chronic 2; H411	Calculation method

### Relevant H statements (full text)

H315	Causes skin irritation
H317	May cause an allergic skin reaction
H318	Causes serious eye damage
H319	Causes serious eye irritation
H351	Suspected of causing cancer
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.)*