

## Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 23.01.2023

Version number 5 (replaces version 4)

Revision: 23.01.2023

### SECTION 1: Identification of the substance/mixture and of the company/undertaking

**1.1 Product identifier****Trade name: 703-B Adhesive and spout epoxy component B****Article number:** 703-B**UFI:** GRFM-R029-E00Y-89HD**1.2 Relevant identified uses of the substance or mixture and uses advised against***No further relevant information available.***Application of the substance / preparation** Hardener**1.3 Details of the supplier of the safety data sheet****Manufacturer/Supplier:**

Forbo Eurocol Nederland B.V.

Industrieweg 1-2

NL-1521 NA Wormerveer Holland

Tel. +31 75 6271600 - Fax +31 75 6283564

E-mail address: info.eurocol@forbo.com

Website: www.eurocol.com

**1.4 Emergency telephone number:***In case of emergency please contact the Dutch National Poison Control, telephone number: 0031-(0)88-755 8000 (This number is only accessible to the physician treating the patient and only in case of accidental poisoning).*

### SECTION 2: Hazards identification

**2.1 Classification of the substance or mixture****Classification according to Regulation (EC) No 1272/2008***Skin Corr. 1B H314 Causes severe skin burns and eye damage.**Eye Dam. 1 H318 Causes serious eye damage.**Skin Sens. 1 H317 May cause an allergic skin reaction.***2.2 Label elements****Labelling according to Regulation (EC) No 1272/2008***The product is classified and labelled according to the GB CLP regulation.***Hazard pictograms**

GHS05 GHS07

**Signal word** *Danger***Hazard-determining components of labelling:***isophorone diamine*

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GB

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Fatty acids. C18 unsaturated, dimers, polymeric reaction products from tall oil, fatty acids and triethylenetetramine

3-aminopropyltriethoxysilane

**Hazard statements**

H314 Causes severe skin burns and eye damage.

H317 May cause an allergic skin reaction.

**Precautionary statements**

P101 If medical advice is needed, have product container or label at hand.

P102 Keep out of reach of children.

P260 Do not breathe mist/vapours/spray.

P280 Wear protective gloves/protective clothing/eye protection/face protection/hearing protection.

P301+P330+P331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.

P302+P352 IF ON SKIN: Wash with plenty of soap and water.

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

Immediately call a POISON CENTER/doctor.

P405 Store locked up.

P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

**2.3 Other hazards**

**Results of PBT and vPvB assessment**

**PBT:** This mixture contains no substances considered to be persistent or bioaccumulative or toxic (PBT).

**vPvB:**

This mixture does not contain any substances considered to be very persistent or very bioaccumulative (vPvB).

**Determination of endocrine-disrupting properties**

The product does not contain substances with endocrine disrupting properties.

## SECTION 3: Composition/information on ingredients

**3.2 Mixtures**

**Description:** Epoxy resin crosslinker

**Dangerous components:**

CAS: 100-51-6 EINECS: 202-859-9	Benzyl alcohol ⚠ Acute Tox. 4, H302; Acute Tox. 4, H332; Eye Irrit. 2, H319	>1-5%
CAS: 68082-29-1	Fatty acids. C18 unsaturated, dimers, polymeric reaction products from tall oil, fatty acids and triethylenetetramine ⚠ Skin Irrit. 2, H315; Eye Irrit. 2, H319; Skin Sens. 1, H317	>10-25%
CAS: 2855-13-2 EINECS: 220-666-8	isophorone diamine ⚠ Skin Corr. 1B, H314; Eye Dam. 1, H318; ⚠ Acute Tox. 4, H302; Skin Sens. 1A, H317 ATE: LD50 oral: 1,030 mg/kg Specific concentration limit: Skin Sens. 1A; H317: C ≥ 0.001 %	>5-10%
CAS: 919-30-2 EINECS: 213-048-4	3-aminopropyltriethoxysilane ⚠ Skin Corr. 1B, H314; ⚠ Acute Tox. 4, H302; Skin Sens. 1, H317	>1-5%
CAS: 103-83-3 EINECS: 203-149-1	benzyl dimethylamine ⚠ Flam. Liq. 3, H226; ⚠ Acute Tox. 3, H331; ⚠ Skin Corr. 1B, H314; ⚠ Acute Tox. 4, H302; Acute Tox. 4, H312; Aquatic Chronic 3, H412	<1%

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· **Additional information:** *For the wording of the listed hazard phrases refer to section 16.*

#### SECTION 4: First aid measures

##### · 4.1 Description of first aid measures

· **General information:** *Immediately remove any clothing soiled by the product.*

##### · **After inhalation:**

*In case of unconsciousness place patient stably in side/recovery position for transportation. Supply fresh air; consult doctor in case of complaints.*

##### · **After skin contact:**

*If skin irritation continues, consult a doctor. Wash with soap and water. Remove contaminated clothing.*

##### · **After eye contact:**

*After eye contact rinse the eyes immediately with open lids 10 to 15 minutes with running water. Remove contact lenses, if possible. Keep on rinsing. Consult an ophthalmologist.*

##### · **After swallowing:**

*Do not let the victim vomit. After swallowing rinse the mouth thoroughly with water (only when the person fully conscious) and call for immediate help. Let the victim rest.*

##### · **4.2 Most important symptoms and effects, both acute and delayed**

*No further relevant information available.*

##### · **4.3 Indication of any immediate medical attention and special treatment needed**

*No further relevant information available.*

#### SECTION 5: Firefighting measures

##### · 5.1 Extinguishing media

· **Suitable extinguishing agents:** *CO<sub>2</sub>, powder or water haze. Fight larger fire with alcohol resistant foam.*

· **For safety reasons unsuitable extinguishing agents:** *Water spray*

##### · 5.2 Special hazards arising from the substance or mixture

*Formation of toxic gases is possible during heating or in case of fire.*

*Carbon monoxide (CO)*

*Carbon dioxide (CO<sub>2</sub>)*

*Nitrogen oxides (NO<sub>x</sub>)*

*Ammonia (NH<sub>3</sub>)*

##### · 5.3 Advice for firefighters

##### · **Protective equipment:**

*Wear self-contained respiratory protective device.*

*Wear fully protective suit.*

##### · **Additional information**

*Collect contaminated fire fighting water separately. It must not enter the sewage system.*

#### SECTION 6: Accidental release measures

##### · 6.1 Personal precautions, protective equipment and emergency procedures

*Ensure adequate ventilation*

*Particular danger of slipping on leaked/spilled product.*

##### · 6.2 Environmental precautions:

*Do not allow to penetrate the ground/soil.*

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Prevent product from entering drains.

· **6.3 Methods and material for containment and cleaning up:**

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).

· **6.4 Reference to other sections**

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

### SECTION 7: Handling and storage

· **7.1 Precautions for safe handling** Use only in well-ventilated areas. Contact of the skin and avoid the eyes.

· **Information about fire - and explosion protection:** No special measures required.

· **7.2 Conditions for safe storage, including any incompatibilities**

· **Storage:**

· **Requirements to be met by storerooms and receptacles:** Store in a cool, but frost-proof location.

· **Information about storage in one common storage facility:**

Do not store together with foodstuffs and animal fodder.

· **Further information about storage conditions:** Recommended storage temperature between 5 and 35 °C.

· **7.3 Specific end use(s)** No further relevant information available.

### SECTION 8: Exposure controls/personal protection

· **8.1 Control parameters**

· **Ingredients with limit values that require monitoring at the workplace:**

The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.

· **DNELs**

**2855-13-2 isophorone diamine**

Inhalative	DNEL inhalation short term	0.073 mg/m <sup>3</sup> /mg/m <sup>3</sup> (wrk)
	DNEL	0.073 mg/m <sup>3</sup> (LT)
		0.073 mg/m <sup>3</sup> (Short term)

**100-51-6 Benzyl alcohol**

Oral	DNEL	4 mg/kg /bw/day (Consumer)
Dermal	DNEL dermal long term	4 /mg/kg lg/dag (Consumer)
Inhalative	DNEL Inhalative long terme	27 /mg/m <sup>3</sup> (wrk)
	DNEL	5.4 mg/m <sup>3</sup> /langdurig (wrk)

**919-30-2 3-aminopropyltriethoxysilane**

Dermal	DNEL dermal long term	5 /mg/kg lg/dag (Consumer)
Inhalative	DNEL inhalation short term	59 mg/m <sup>3</sup> /mg/m <sup>3</sup> (wrk)
	DNEL Inhalative long terme	59 /mg/m <sup>3</sup> (wrk)
	DNEL	17 mg/m <sup>3</sup> (Consumer)

· **PNECs**

**2855-13-2 isophorone diamine**

PNEC mg/l	1.121 mg/l (Soil)
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	0.0094 mg/l (Sea Water) 0.578 mg/l (Sea Water Sediment) 0.094 mg/l (Fresh Water) 5.784 mg/l (Fresh Water Sediment)
<b>100-51-6 Benzyl alcohol</b>	
PNEC mg/l	0.1 mg/l (Sea Water) 1 mg/l (Fresh Water)
PNEC mg/kg	0.456 mg/kg (Soil) 0.527 mg/kg (Sea Water Sediment) 5.27 mg/kg (Fresh Water Sediment)
<b>919-30-2 3-aminopropyltriethoxysilane</b>	
PNEC mg/l	0.033 mg/l (Sea Water) 0.33 mg/l (Fresh Water)
<b>14808-60-7 Quartz (SiO<sub>2</sub>)</b>	
PNEC mg/l	0.033 mg/l (Sea Water) 0.33 mg/l (Fresh Water)

· **Additional information:** The lists valid during manufacture were used as basis.

#### · 8.2 Exposure controls

- **Appropriate engineering controls** No further data; see item 7.
- **Individual protection measures, such as personal protective equipment**
- **General protective and hygienic measures:**

*The usual precautionary measures are to be adhered to when handling chemicals.*

*Do not eat in the workplace, drink, smoke or sniff.*

*Wash hands before breaks and at the end of work.*

*Immediately remove all soiled and contaminated clothing*

*Avoid contact with skin, eyes and clothing.*

- **Respiratory protection:** Not necessary if room is well-ventilated.

#### · **Hand protection**



Protective gloves

*The glove material has to be impermeable and resistant to the product/ the substance/ the preparation. Selection of the glove material is dependant on the penetration times, rates of diffusion and degradation.*

#### · **Material of gloves**

*Recommended use: nitrile rubber. Butyl rubber. Thickness of the gloves 0.7 mm. The penetration time of the mentioned glove material is greater than 480 min. Ensure that the breakthrough time of the glove material is not exceeded. Consult glove supplier for breakthrough information for specific gloves.*

*The gloves should be replaced regularly and at any sign of damage to the glove material. Unsuitable material for the gloves: Disposable gloves, leather.*

*Gloves must comply with standard EN 374.*

- **Penetration time of glove material** ≥ 480 Minutes

#### · **For prolonged contact gloves made of the following materials are suitable:**

*Butyl rubber*

*Nitrile rubber*

*Thickness 0,7 mm.*

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· **Not suitable are gloves made of the following materials:**

*Leather gloves*  
*Disposable gloves.*

· **Eye/face protection**



*Tightly sealed goggles*

*Tightly sealed goggles by risk of splashing.*

· **Body protection:** *Protective work clothing*

## SECTION 9: Physical and chemical properties

· **9.1 Information on basic physical and chemical properties**

· **General Information**

· <b>Colour:</b>	<i>Whitish</i>
· <b>Odour:</b>	<i>Amine-like</i>
· <b>Odour threshold:</b>	<i>Not determined.</i>
· <b>Melting point/freezing point:</b>	<i>Undetermined.</i>
· <b>Boiling point or initial boiling point and boiling range</b>	<i>Undetermined.</i>
· <b>Flammability</b>	<i>Not applicable.</i>
· <b>Lower and upper explosion limit</b>	
· <b>Lower:</b>	<i>Not determined.</i>
· <b>Upper:</b>	<i>Not determined.</i>
· <b>Flash point:</b>	<i>Not applicable.</i>
· <b>Decomposition temperature:</b>	<i>Not determined.</i>
· <b>pH</b>	<i>Not determined.</i>
· <b>Viscosity:</b>	
· <b>Kinematic viscosity</b>	<i>Not determined.</i>
· <b>Dynamic:</b>	<i>Not determined.</i>
· <b>Solubility</b>	
· <b>water:</b>	<i>Not determined.</i>
· <b>Partition coefficient n-octanol/water (log value)</b>	<i>Not determined.</i>
· <b>Vapour pressure:</b>	<i>Not determined.</i>
· <b>Density and/or relative density</b>	
· <b>Density at 20 °C:</b>	<i>1.5-1.7 g/cm<sup>3</sup></i>
· <b>Relative density</b>	<i>Not determined.</i>
· <b>Vapour density</b>	<i>Not determined.</i>

· **9.2 Other information**

· **Appearance:**

· **Form:** *Paste*

· **Important information on protection of health and environment, and on safety.**

· **Auto-ignition temperature:** *Product is not self-igniting.*

· **Explosive properties:** *Product does not present an explosion hazard.*

· **Solvent content:**

· **VOC(EC%)** *5.00 %*

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· <b>Change in condition</b>	
· <b>Evaporation rate</b>	<i>Not determined.</i>
· <b>Information with regard to physical hazard classes</b>	
· <b>Explosives</b>	<i>Void</i>
· <b>Flammable gases</b>	<i>Void</i>
· <b>Aerosols</b>	<i>Void</i>
· <b>Oxidising gases</b>	<i>Void</i>
· <b>Gases under pressure</b>	<i>Void</i>
· <b>Flammable liquids</b>	<i>Void</i>
· <b>Flammable solids</b>	<i>Void</i>
· <b>Self-reactive substances and mixtures</b>	<i>Void</i>
· <b>Pyrophoric liquids</b>	<i>Void</i>
· <b>Pyrophoric solids</b>	<i>Void</i>
· <b>Self-heating substances and mixtures</b>	<i>Void</i>
· <b>Substances and mixtures, which emit flammable gases in contact with water</b>	<i>Void</i>
· <b>Oxidising liquids</b>	<i>Void</i>
· <b>Oxidising solids</b>	<i>Void</i>
· <b>Organic peroxides</b>	<i>Void</i>
· <b>Corrosive to metals</b>	<i>Void</i>
· <b>Desensitised explosives</b>	<i>Void</i>

### SECTION 10: Stability and reactivity

- **10.1 Reactivity** *No further relevant information available.*
- **10.2 Chemical stability**
- **Thermal decomposition / conditions to be avoided:** *No decomposition if used according to specifications.*
- **10.3 Possibility of hazardous reactions**  
*Strong exothermic reaction with acids.*  
*Reacts with oxidising agents.*
- **10.4 Conditions to avoid** *No further relevant information available.*
- **10.5 Incompatible materials:** *Exothermic reaction with: acid.*
- **10.6 Hazardous decomposition products:**  
*Corrosive gases/vapours*  
*Ammonia*

### SECTION 11: Toxicological information

- **11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008**
- **Acute toxicity** *Based on available data, the classification criteria are not met.*

#### · **LD/LC50 values relevant for classification:**

##### **14808-60-7 Quartz (SiO<sub>2</sub>)**

Oral	LD50	>2,000 mg/kg (rat)
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##### **2855-13-2 isophorone diamine**

Oral	LD50	1,030 mg/kg (ATE)
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Dermal	ATE	1,030 mg/kg (rat)
Inhalative	LC50/4 h	1,100 mg/kg (rat)
		>5.01 mg/l (rat)
<b>100-51-6 Benzyl alcohol</b>		
Oral	LD50	1,620 mg/kg (rat)
Dermal	LD50	2,000 mg/kg (rabbit)
Inhalative	LC50/4 h	4.17 mg/l (rat)
<b>919-30-2 3-aminopropyltriethoxysilane</b>		
Oral	LD50	1,780 mg/kg (rat)
Dermal	LD50	4,000 mg/kg (rabbit)
<b>103-83-3 benzyldimethylamine</b>		
Oral	LD50	265 mg/kg (rat)
Dermal	LD50	1,660 mg/kg (rabbit)
Inhalative	LC50/4 h	2.06 mg/l (rat)
<b>14808-60-7 Quartz (SiO<sub>2</sub>)</b>		
Oral	LD50	>2,000 mg/kg (rat)

- **Skin corrosion/irritation**

*Causes severe skin burns and eye damage.*

- **Serious eye damage/irritation**

*Causes serious eye damage.*

- **Respiratory or skin sensitisation**

*May cause an allergic skin reaction.*

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

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

- **Aspiration hazard** *Based on available data, the classification criteria are not met.*

- **11.2 Information on other hazards**

- **Endocrine disrupting properties**

*None of the ingredients is listed.*

## SECTION 12: Ecological information

- **12.1 Toxicity**

- **Aquatic toxicity:**

**100-51-6 Benzyl alcohol**

ErC50/72 h 700 mg/l (*Pseudokirchnerella subcapitata*)

EC50/48 h 230 mg/l (*daphnia*)

LC50/96 h 50 mg/l

**919-30-2 3-aminopropyltriethoxysilane**

LC50/96h >934 mg/l (BR)

EC50/48 h 331 mg/l (*daphnia*)

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**103-83-3 benzyldimethylamine**LC50/96h | 35.8-39.9 mg/l (*Pimephales promelas*)**12.2 Persistence and degradability****2855-13-2 isophorone diamine**

Biologische afbreekbaarheid | 8 % / 28 d (OECD 301A)

**100-51-6 Benzyl alcohol**

OECD 301/D EEC 92/69/V, C.4-E | 95 % / 28 d (Not specified)

**12.3 Bioaccumulative potential****2855-13-2 isophorone diamine**

Verdelingscoëfficiënt n-octanol/water | 2.33 [---] (log Pow) (Not specified)

**100-51-6 Benzyl alcohol**

Verdelingscoëfficiënt n-octanol/water | 1.05 [---] (log Pow) (Not specified)

**919-30-2 3-aminopropyltriethoxysilane**

Verdelingscoëfficiënt n-octanol/water | 1.7 [---] (log Pow) (Not specified)

**103-83-3 benzyldimethylamine**

Verdelingscoëfficiënt n-octanol/water | 1.98 [---] (log Pow) (Not specified)

· **12.4 Mobility in soil** No further relevant information available.

**12.5 Results of PBT and vPvB assessment**

· **PBT:** This mixture contains no substances considered to be persistent or bioaccumulative or toxic (PBT).

**vPvB:**

This mixture does not contain any substances considered to be very persistent or very bioaccumulative (vPvB).

**12.6 Endocrine disrupting properties**

The product does not contain substances with endocrine disrupting properties.

**12.7 Other adverse effects****Additional ecological information:****General notes:**

Water hazard class 2 (German Regulation) (Self-assessment): hazardous for water

Danger to drinking water if even small quantities leak into the ground.

Do not discharge into ground water, in surface water or in the sewer system.

Avoid transfer into the environment.

## SECTION 13: Disposal considerations

**13.1 Waste treatment methods****Recommendation**

Uncured product: special waste.

Cured product, for example, after mixing with the appropriate amount of hardener: domestic or commercial waste. Note local regulations.

**European waste catalogue**

08 04 09*	waste adhesives and sealants containing organic solvents or other hazardous substances
15 01 10*	packaging containing residues of or contaminated by hazardous substances
HP8	Corrosive
HP13	Sensitising

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- **Uncleaned packaging:**
- **Recommendation:** *Disposal must be made according to official regulations.*

### SECTION 14: Transport information

<ul style="list-style-type: none"> <li>· 14.1 UN number or ID number</li> <li>· ADR, IMDG, IATA</li> </ul>	UN2735
<ul style="list-style-type: none"> <li>· 14.2 UN proper shipping name</li> <li>· ADR</li> <li>· IMDG, IATA</li> </ul>	2735 AMINES, LIQUID, CORROSIVE, N.O.S. (3-aminopropyltriethoxysilane, ISOPHORONEDIAMINE) AMINES, LIQUID, CORROSIVE, N.O.S. (3-aminopropyltriethoxysilane, ISOPHORONEDIAMINE)
<ul style="list-style-type: none"> <li>· 14.3 Transport hazard class(es)</li> <li>· ADR, IMDG, IATA</li> </ul>	<div style="text-align: center;">  </div> <ul style="list-style-type: none"> <li>· Class</li> <li>· Label</li> </ul>
<ul style="list-style-type: none"> <li>· Class</li> <li>· Label</li> </ul>	8 Corrosive substances. 8
<ul style="list-style-type: none"> <li>· 14.4 Packing group</li> <li>· ADR, IMDG, IATA</li> </ul>	III
<ul style="list-style-type: none"> <li>· 14.5 Environmental hazards:</li> <li>· Marine pollutant:</li> </ul>	No
<ul style="list-style-type: none"> <li>· 14.6 Special precautions for user</li> <li>· Hazard identification number (Kemler code):</li> <li>· EMS Number:</li> <li>· Segregation groups</li> <li>· Stowage Category</li> <li>· Segregation Code</li> </ul>	Warning: Corrosive substances. 80 F-A,S-B Alkalis A SG35 Stow "separated from" SGG1-acids
<ul style="list-style-type: none"> <li>· 14.7 Maritime transport in bulk according to IMO instruments</li> </ul>	Not applicable.
<ul style="list-style-type: none"> <li>· Transport/Additional information:</li> </ul>	Not classified as hazardous under transport regulations.
<ul style="list-style-type: none"> <li>· ADR</li> <li>· Limited quantities (LQ)</li> <li>· Excepted quantities (EQ)</li> <li>· Transport category</li> <li>· Tunnel restriction code</li> </ul>	7 Code: E1 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 1000 ml 3 E

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· <b>IMDG</b>	
· <b>Limited quantities (LQ)</b>	5L
· <b>Excepted quantities (EQ)</b>	Code: E1 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 1000 ml
· <b>UN "Model Regulation":</b>	UN 2735 AMINES, LIQUID, CORROSIVE, N.O.S. (3-AMINOPROPYLTRIETHOXY SILANE, ISOPHORONEDIAMINE), 8, III

### SECTION 15: Regulatory information

· **15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**

- Directive 2012/18/EU
- **Named dangerous substances - ANNEX I** *None of the ingredients is listed.*
- **REGULATION (EC) No 1907/2006 ANNEX XVII** *Conditions of restriction: 3*

· **DIRECTIVE 2011/65/EU on the restriction of the use of certain hazardous substances in electrical and electronic equipment – Annex II**

*None of the ingredients is listed.*

· **REGULATION (EU) 2019/1148**

· **Annex I - RESTRICTED EXPLOSIVES PRECURSORS (Upper limit value for the purpose of licensing under Article 5(3))**

*None of the ingredients is listed.*

· **Annex II - REPORTABLE EXPLOSIVES PRECURSORS**

*None of the ingredients is listed.*

· **Regulation (EC) No 273/2004 on drug precursors**

*None of the ingredients is listed.*

· **Regulation (EC) No 111/2005 laying down rules for the monitoring of trade between the Community and third countries in drug precursors**

*None of the ingredients is listed.*

· **National regulations:**

· **Technical instructions (air):**

Class	Share in %
NK	4.5

· **Waterhazard class:** *Water hazard class 2 (Self-assessment): hazardous for water.*

· **15.2 Chemical safety assessment:** *A Chemical Safety Assessment has not been carried out.*

### SECTION 16: Other information

*This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.*

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## Safety data sheet

### according to 1907/2006/EC, Article 31

Printing date 23.01.2023

Version number 5 (replaces version 4)

Revision: 23.01.2023

**Trade name: 703-B Adhesive and spout epoxy component B**

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· **Relevant phrases**

H226 *Flammable liquid and vapour.*  
 H302 *Harmful if swallowed.*  
 H312 *Harmful in contact with skin.*  
 H314 *Causes severe skin burns and eye damage.*  
 H315 *Causes skin irritation.*  
 H317 *May cause an allergic skin reaction.*  
 H318 *Causes serious eye damage.*  
 H319 *Causes serious eye irritation.*  
 H331 *Toxic if inhaled.*  
 H332 *Harmful if inhaled.*  
 H412 *Harmful to aquatic life with long lasting effects.*

· **Department issuing SDS:** R&D department

· **Contact:** Ing. T.W. Breeuwer

· **Date of previous version:** 23.01.2023

· **Version number of previous version:** 4

· **Abbreviations and acronyms:**

ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International Carriage of Dangerous Goods by Road)  
 IMDG: International Maritime Code for Dangerous Goods  
 IATA: International Air Transport Association  
 GHS: Globally Harmonised System of Classification and Labelling of Chemicals  
 EINECS: European Inventory of Existing Commercial Chemical Substances  
 ELINCS: European List of Notified Chemical Substances  
 CAS: Chemical Abstracts Service (division of the American Chemical Society)  
 VOC: Volatile Organic Compounds (USA, EU)  
 DNEL: Derived No-Effect Level (UK REACH)  
 PNEC: Predicted No-Effect Concentration (UK REACH)  
 LC50: Lethal concentration, 50 percent  
 LD50: Lethal dose, 50 percent  
 PBT: Persistent, Bioaccumulative and Toxic  
 vPvB: very Persistent and very Bioaccumulative  
 Flam. Liq. 3: Flammable liquids – Category 3  
 Acute Tox. 4: Acute toxicity – Category 4  
 Acute Tox. 3: Acute toxicity – Category 3  
 Skin Corr. 1B: Skin corrosion/irritation – Category 1B  
 Skin Irrit. 2: Skin corrosion/irritation – Category 2  
 Eye Dam. 1: Serious eye damage/eye irritation – Category 1  
 Eye Irrit. 2: Serious eye damage/eye irritation – Category 2  
 Skin Sens. 1: Skin sensitisation – Category 1  
 Skin Sens. 1A: Skin sensitisation – Category 1A  
 Aquatic Chronic 3: Hazardous to the aquatic environment - long-term aquatic hazard – Category 3