

Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 20.07.2021

Version number 2

Revision: 20.07.2021

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

· 1.1 Product identifier

· Trade name: **023-A Euroblock Fast component A**

· Article number: 023-A

· 1.2 Relevant identified uses of the substance or mixture and uses advised against
No further relevant information available.

· Application of the substance / preparation 2-Component primer

· 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 Irrit. 2 H315 Causes skin irritation.

Eye Irrit. 2 H319 Causes serious eye irritation.

Skin Sens. 1 H317 May cause an allergic skin reaction.

Aquatic Chronic 2 H411 Toxic to aquatic life with long lasting effects.

· 2.2 Label elements

· Labelling according to Regulation (EC) No 1272/2008

The product is classified and labelled according to the CLP regulation.

· Hazard pictograms



GHS07 GHS09

· Signal word *Warning*

· Hazard statements

H315 Causes skin irritation.

H319 Causes serious eye irritation.

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H317 May cause an allergic skin reaction.

H411 Toxic to aquatic life with long lasting effects.

Precautionary statements

P261 Avoid breathing dust/fume/gas/mist/vapours/spray.

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

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

P321 Specific treatment (see on this label).

P362+P364 Take off contaminated clothing and wash it before reuse.

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

Additional information:

Contains reaction product: bisphenol-A-(epichlorhydrin) epoxy resin (number average molecular weight \leq 700), reaction product: bisphenol-F-epichlorhydrin epoxy resin, oxirane, mono[(C12-14-alkyloxy)methyl] derivs. May produce an allergic reaction.

2.3 Other hazards

Results of PBT and vPvB assessment

· **PBT:** Not applicable.

· **vPvB:** Not applicable.

SECTION 3: Composition/information on ingredients

3.2 Chemical characterisation: Mixtures

· **Description:** Epoxy resin

Dangerous components:

CAS: 25068-38-6 NLP: 500-033-5	reaction product: bisphenol-A-(epichlorhydrin) epoxy resin (number average molecular weight \leq 700) ⚠ Aquatic Chronic 2, H411; ⚠ Skin Irrit. 2, H315; Eye Irrit. 2, H319; Skin Sens. 1, H317	>50-100%
CAS: 9003-36-5 NLP: 500-006-8	reaction product: bisphenol-F-epichlorhydrin epoxy resin ⚠ Aquatic Chronic 2, H411; ⚠ Skin Irrit. 2, H315; Skin Sens. 1, H317	>25-50%
CAS: 68609-97-2 EINECS: 271-846-8	oxirane, mono[(C12-14-alkyloxy)methyl] derivs ⚠ Skin Irrit. 2, H315; Skin Sens. 1, H317	>10-25%

· **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:** 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.

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- **After swallowing:**

Rinse mouth with water and then drink plenty of water, consult physician immediately.

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**

After eyecontact: Irritating to eyes.

After inhalation: Significant effects or critical hazards are not known.

Skin contact: irritating to skin. May cause sensitisation by skin contact.

Ingestion: causes irritation to mouth, throat and stomach.

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

Symptomatic treatment.

SECTION 5: Firefighting measures

- **5.1 Extinguishing media**

- **Suitable extinguishing agents:** *CO₂, 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 dioxide

Carbon monoxide (CO)

Phenols

- **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** *Wear protective clothing.*

- **6.2 Environmental precautions:**

Inform respective authorities in case of seepage into water course or sewage system.

Do not allow to enter sewers/ surface or ground water.

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

Dispose contaminated material as waste according to item 13.

Ensure adequate ventilation.

- **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** *Ensure good ventilation/exhaustion at the workplace.*

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

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- **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 25 °C.*
- **7.3 Specific end use(s)** *No further relevant information available.*

SECTION 8: Exposure controls/personal protection

- **8.1 Control parameters**
- **Additional information about design of technical facilities:** *No further data; see item 7.*
- **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

25068-38-6 reaction product: bisphenol-A-(epichlorhydrin) epoxy resin (number average molecular weight \leq 700)

Dermal	DNEL	8.33 mg/kg KG/d (Short term) (Systematics) 8.33 mg/kg KG/d (Long term) (Systematics)
Inhalative	DNEL	12.25 mg/m ³ (Short term) (Systematics) 12.25 mg/m ³ (Long term) (Systematics)

9003-36-5 reaction product: bisphenol-F-epichlorhydrin epoxy resin

Dermal	DNEL	104.15 mg/kg KG/d (Long term) (Systematics)
Inhalative	DNEL	29.39 mg/m ³ (Short term) (Systematics)

68609-97-2 oxirane, mono[(C12-14-alkyloxy)methyl] derivs

Dermal	DNEL	1 mg/kg KG/d (Long term) (Systematics)
Inhalative	DNEL	3.6 mg/m ³ (Long term) (Systematics)

· PNECs

25068-38-6 reaction product: bisphenol-A-(epichlorhydrin) epoxy resin (number average molecular weight \leq 700)

PNEC mg/l	0.001 mg/l (Sea Water) 0.006 mg/l (Fresh Water)
PNEC mg/kg	0.196 mg/kg (Soil) 0.1 mg/kg (Sea Water Sediment) 0.996 mg/kg (Fresh Water Sediment)

9003-36-5 reaction product: bisphenol-F-epichlorhydrin epoxy resin

PNEC mg/l	0.0003 mg/l (Sea Water) 0.003 mg/l (Fresh Water)
PNEC mg/kg	0.237 mg/kg (Soil) 0.0294 mg/kg (Sea Water Sediment) 0.294 mg/kg (Fresh Water Sediment)

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68609-97-2 oxirane, mono[(C12-14-alkyloxy)methyl] derivs

PNEC mg/l	0.001 mg/l (Sea Water)
	0.007 mg/l (Fresh Water)
PNEC mg/kg	61.42 mg/kg (Soil)
	30.72 mg/kg (Sea Water Sediment)
	307.16 mg/kg (Fresh Water Sediment)

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

· 8.2 Exposure controls

· Personal protective equipment:

· General protective and hygienic measures:

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

Keep away from foodstuffs, beverages and feed.

Immediately remove all soiled and contaminated clothing

Wash hands before breaks and at the end of work.

Avoid contact with the eyes and skin.

· Respiratory protection:

Respiratory protection should be worn if the TLV value is possibly exceeded. If no TLV values exist, wear respiratory protection if adverse effects (such as respiratory irritation) of discomfort occur, or when indicated by your risk assessment process. No respiratory protection should be required for most conditions. In case of discomfort, use an approved air purifying device. Use an EC approved respirator: Organic vapor cartridge with a particulate pre-filter, type AP2.

If no TLV values exist, wear respiratory protection if adverse effects (such as respiratory irritation) or discomfort occur, or when indicated by your risk assessment process.

· Protection of hands:



Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

· Material of gloves

Use chemical resistant gloves classified under EN374: gloves for protection against chemicals and micro-organisms. Examples of preferred glove materials that form a barrier. Butyl rubber Ethyl vinyl alcohol laminate ("EVAL") - Nitrile. Neoprene. Nitrile / butadiene rubber ("nitrile or" NBR ") Polyvinyl chloride (" PVC or "vinyl"). If prolonged or frequently repeated contact can occur, gloves with a protection class 6 (breakthrough time greater than 480 minutes according to EN 374) are recommended, and if only short-term contact is expected, gloves with a protection class of 1 or higher (breakthrough time greater than 10 minutes are followed) EN 374) recommended.

· Penetration time of glove material

The exact break through time has to be established by the manufacturer of the protective gloves and has to be observed.

· Eye protection:



Tightly sealed goggles

Tightly sealed goggles by risk of splashing.

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SECTION 9: Physical and chemical properties

· 9.1 Information on basic physical and chemical properties

· General Information

· Appearance:

· Form:	Liquid
· Colour:	Light yellow
· Odour:	Characteristic
· Odour threshold:	Not determined.

· pH-value: Not determined.

· Change in condition

· Melting point/freezing point:	-5 °C
· Initial boiling point and boiling range:	>200 °C

· Flash point: >140 °C

· Flammability (solid, gas): Not applicable.

· Ignition temperature: >200 °C

· Decomposition temperature: Not determined.

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

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

· Explosion limits:

· Lower:	Not determined.
· Upper:	Not determined.

· Vapour pressure: Not determined.

· Density at 20 °C: 1.13 g/cm³

· Bulk density:	1,130 kg/m ³
· Relative density	Not determined.
· Vapour density	Not determined.
· Evaporation rate	Not determined.

· Solubility in / Miscibility with water:

Not soluble and miscible.

· Partition coefficient: n-octanol/water: Not determined.

· Viscosity:

· Dynamic at 20 °C:	500-900 mPas
· Kinematic:	Not determined.

· Solvent content:

· Organic solvents: 0.0 %

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9.2 Other information

No further relevant information available.

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**
May produce violent reactions with bases and numerous organic substances including alcohols and amines.
- **10.4 Conditions to avoid**
Avoid short term exposures to temperatures above 300 °C. Avoid prolonged exposure to temperatures above 250 °C, A possible violent decomposition can occur above 350 °C, Gas formation during decomposition can lead to pressure build-up in closed systems. The pressure can rise quickly.
- **10.5 Incompatible materials:**
Avoid contact with oxidizing substances. Avoid contact with acids, bases. Avoid accidental contact with amines.
- **10.6 Hazardous decomposition products:** *Irritant gases/vapours*

SECTION 11: Toxicological information

- **11.1 Information on toxicological effects**
- **Acute toxicity** *Based on available data, the classification criteria are not met.*

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

25068-38-6 reaction product: bisphenol-A-(epichlorhydrin) epoxy resin (number average molecular weight \leq 700)

Oral	LD50	>5,000 mg/kg (rat)
Dermal	LD50	>2,000 mg/kg (rat)

9003-36-5 reaction product: bisphenol-F-epichlorhydrin epoxy resin

Oral	LD50	>10,000 mg/kg (rat)
Dermal	LD50	>2,000 mg/kg (rat)

68609-97-2 oxirane, mono[(C12-14-alkyloxy)methyl] derivs

Oral	LD50	>10,000 mg/kg (rat)
Inhalative	LC50/7 h	>0.15 mg/l (rat)

- **Primary irritant effect:**
- **Skin corrosion/irritation**
Causes skin irritation.
- **Serious eye damage/irritation**
Causes serious eye irritation.
- **Respiratory or skin sensitisation**
May cause an allergic skin reaction.
- **Additional toxicological information:**
- **CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)**
- **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.*

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- **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.

SECTION 12: Ecological information

· 12.1 Toxicity

· Aquatic toxicity:

25068-38-6 reaction product: bisphenol-A-(epichlorhydrin) epoxy resin (number average molecular weight \leq 700)

EC50/3h >100 mg/l (activated sludge)

LC50/96h 1.5 mg/l (fish)

9003-36-5 reaction product: bisphenol-F-epichlorhydrin epoxy resin

ErC50/72 h 1.8 mg/l (algae)

EC50/48 h 2.55 mg/l (DM)

LC50/96 h 2.54 mg/l (fish)

· 12.2 Persistence and degradability

25068-38-6 reaction product: bisphenol-A-(epichlorhydrin) epoxy resin (number average molecular weight \leq 700)

OECE 301-B 12-28 %/d (biodegradability)

· 12.3 Bioaccumulative potential

25068-38-6 reaction product: bisphenol-A-(epichlorhydrin) epoxy resin (number average molecular weight \leq 700)

Verdelingscoëfficiënt n-octanol/water 3.8 [---] (log Pow) (Not specified)

9003-36-5 reaction product: bisphenol-F-epichlorhydrin epoxy resin

Verdelingscoëfficiënt n-octanol/water 3.6 [---] (log Pow) (Not specified)

68609-97-2 oxirane, mono[(C12-14-alkyloxy)methyl] derivs

BCF 100-3,000 BCF (Not specified)

Verdelingscoëfficiënt n-octanol/water >3 [---] (log Pow) (Not specified)

· 12.4 Mobility in soil No further relevant information available.

· Ecotoxicological effects:

· **Remark:** Toxic for fish

· Additional ecological information:

· General notes:

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

Do not allow product to reach ground water, water course or sewage system.

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

Also poisonous for fish and plankton in water bodies.

Toxic for aquatic organisms

· 12.5 Results of PBT and vPvB assessment

· **PBT:** Not applicable.

· **vPvB:** Not applicable.

· 12.6 Other adverse effects No further relevant information available.

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SECTION 13: Disposal considerations

· **13.1 Waste treatment methods**

· **Recommendation**

Must not be disposed together with household garbage. Do not allow product to reach sewage system.

· **Uncleaned packaging:**

· **Recommendation:** *Disposal must be made according to official regulations.*

SECTION 14: Transport information

· **14.1 UN-Number**

· **ADR, IMDG, IATA**

UN3082

· **14.2 UN proper shipping name**

· **ADR**

3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (reaction product: bisphenol-A-(epichlorhydrin) epoxy resin (number average molecular weight \leq 700), reaction product: bisphenol-F-epichlorhydrin epoxy resin)

· **IMDG**

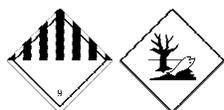
ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (reaction product: bisphenol-A-(epichlorhydrin) epoxy resin (number average molecular weight \leq 700), reaction product: bisphenol-F-epichlorhydrin epoxy resin (number average molecular weight \leq 700)), MARINE POLLUTANT

· **IATA**

ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (reaction product: bisphenol-A-(epichlorhydrin) epoxy resin (number average molecular weight \leq 700), reaction product: bisphenol-F-epichlorhydrin epoxy resin (number average molecular weight \leq 700))

· **14.3 Transport hazard class(es)**

· **ADR, IMDG, IATA**



· **Class**

9 Miscellaneous dangerous substances and articles.

· **Label**

9

· **14.4 Packing group**

· **ADR, IMDG, IATA**

III

· **14.5 Environmental hazards:**

Product contains environmentally hazardous substances: reaction product: bisphenol-A-(epichlorhydrin) epoxy resin (number average molecular weight \leq 700), reaction product: bisphenol-F-epichlorhydrin epoxy resin

· **Marine pollutant:**

Symbol (fish and tree)

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· Special marking (ADR):	Symbol (fish and tree)
· Special marking (IATA):	Symbol (fish and tree)
· 14.6 Special precautions for user	Warning: Miscellaneous dangerous substances and articles.
· Hazard identification number (Kemler code):	90
· EMS Number:	F-A,S-F
· Stowage Category	A
· 14.7 Transport in bulk according to Annex II of Marpol and the IBC Code	Not applicable.
· Transport/Additional information:	

· ADR	
· Limited quantities (LQ)	5L
· Excepted quantities (EQ)	Code: E1 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 1000 ml
· Transport category	3
· Tunnel restriction code	E

· IMDG	
· Limited quantities (LQ)	5L
· Excepted quantities (EQ)	Code: E1 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 1000 ml
· UN "Model Regulation":	UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (REACTION PRODUCT: BISPHENOL-A-(EPICHLORHYDRIN) EPOXY RESIN (NUMBER AVERAGE MOLECULAR WEIGHT ≤ 700), REACTION PRODUCT: BISPHENOL-F-EPICHLORHYDRIN EPOXY RESIN), 9, 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.*
- Seveso category *E2 Hazardous to the Aquatic Environment*
- Qualifying quantity (tonnes) for the application of lower-tier requirements *200 t*
- Qualifying quantity (tonnes) for the application of upper-tier requirements *500 t*
- National regulations:
- Waterhazard class: *Water hazard class 2 (Self-assessment): hazardous for water.*
- Other regulations, limitations and prohibitive regulations
- Substances of very high concern (SVHC) according to REACH, Article 57

None of the ingredients is listed.

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· **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.

· **Relevant phrases**

H315 Causes skin irritation.

H317 May cause an allergic skin reaction.

H319 Causes serious eye irritation.

H411 Toxic to aquatic life with long lasting effects.

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

· **Contact:** *Ing. T.W. Breeuwer*

· **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)

DNEL: Derived No-Effect Level (REACH)

PNEC: Predicted No-Effect Concentration (REACH)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

PBT: Persistent, Bioaccumulative and Toxic

SVHC: Substances of Very High Concern

vPvB: very Persistent and very Bioaccumulative

Skin Irrit. 2: Skin corrosion/irritation – Category 2

Eye Irrit. 2: Serious eye damage/eye irritation – Category 2

Skin Sens. 1: Skin sensitisation – Category 1

Aquatic Chronic 2: Hazardous to the aquatic environment - long-term aquatic hazard – Category 2

· *** Data compared to the previous version altered.**

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Printing date 04.10.2022

Version number 4

Revision: 04.10.2022

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

- **1.1 Product identifier**
- Trade name: **023-B Euroblock Fast component B**

- **Article number:** 023-B
- **1.2 Relevant identified uses of the substance or mixture and uses advised against**
No further relevant information available.
- **Application of the substance / preparation** *Crosslinker*

- **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**

<i>Acute Tox. 4</i>	<i>H302 Harmful if swallowed.</i>
<i>Acute Tox. 4</i>	<i>H332 Harmful if inhaled.</i>
<i>Skin Corr. 1B</i>	<i>H314 Causes severe skin burns and eye damage.</i>
<i>Eye Dam. 1</i>	<i>H318 Causes serious eye damage.</i>
<i>Skin Sens. 1</i>	<i>H317 May cause an allergic skin reaction.</i>
<i>Aquatic Chronic 3</i>	<i>H412 Harmful to aquatic life with long lasting effects.</i>

- **2.2 Label elements**
- **Labelling according to Regulation (EC) No 1272/2008**
The product is classified and labelled according to the CLP regulation.
- **Hazard pictograms**



GHS05 GHS07

- **Signal word** *Danger*

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Hazard-determining components of labelling:*m-phenylenebis(methylamine)**4,4-isopropylidenediphenol oligomer reaction product with 1-chloro-2,3-epoxypropane reaction product with 3 aminomethyl-3,3,3-trimethylcyclohexylamine**2,4,6-tris(dimethylaminomethyl)phenol***Hazard statements***H302+H332 Harmful if swallowed or if inhaled.**H314 Causes severe skin burns and eye damage.**H317 May cause an allergic skin reaction.**H412 Harmful to aquatic life with long lasting effects.***Precautionary statements***P260 Do not breathe dust/fume/gas/mist/vapours/spray.**P264 Wash thoroughly after handling.**P280 Wear protective gloves/protective clothing/eye protection/face protection/hearing protection.**P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower].**P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.**P310 Immediately call a POISON CENTER/doctor.***2.3 Other hazards****Results of PBT and vPvB assessment****PBT:** Not applicable.**vPvB:** Not applicable.

SECTION 3: Composition/information on ingredients

3.2 Mixtures**Description:** Epoxy resin crosslinker**Dangerous components:**

CAS: 1477-55-0 EINECS: 216-032-5	<i>m-phenylenebis(methylamine)</i> ⚠ Skin Corr. 1B, H314; ⚠ Acute Tox. 4, H302; Acute Tox. 4, H332; Skin Sens. 1B, H317; Aquatic Chronic 3, H412	>50-100%
CAS: 38294-64-3 NLP: 500-101-4	<i>4,4-isopropylidenediphenol oligomer reaction product with 1-chloro-2,3-epoxypropane reaction product with 3 aminomethyl-3,3,3-trimethylcyclohexylamine</i> ⚠ Skin Corr. 1B, H314; ⚠ Acute Tox. 4, H302; Skin Sens. 1, H317; Aquatic Chronic 3, H412	>10-25%
CAS: 61788-44-1 EINECS: 262-975-0	<i>phenol, styrenated</i> ⚠ Aquatic Chronic 2, H411	>10-25%
CAS: 90-72-2 EINECS: 202-013-9	<i>2,4,6-tris(dimethylaminomethyl)phenol</i> ⚠ Skin Corr. 1C, H314; Eye Dam. 1, H318; ⚠ Acute Tox. 4, H302	>5-10%

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

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SECTION 4: First aid measures

4.1 Description of first aid measures

General information:

Immediately remove any clothing soiled by the product.

Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.

After inhalation:

In case of unconsciousness place patient stably in side/recovery position for transportation.

Supply fresh air. If required, provide artificial respiration. Keep patient warm. Consult doctor if symptoms persist.

After skin contact:

Remove contaminated clothing.

Wash immediately with water and soap and rinse thoroughly.

If skin irritation continues, consult a doctor.

After eye contact:

Rinse opened eye for several minutes under running water. If symptoms persist, consult a physician.

After swallowing:

A person vomiting while laying on their back should be turned onto their side.

Rinse mouth with water and then drink plenty of water, consult physician immediately.

Do not induce vomiting.

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: *CO₂, 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.

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:

Inform respective authorities in case of seepage into water course or sewage system.

Do not allow product to reach sewage system or any water course.

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6.3 Methods and material for containment and cleaning up:

Use neutralising agent.

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

Dispose contaminated material as waste according to item 13.

Ensure adequate ventilation.

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

Do not use empty containers unless they have been cleaned.

No smoking, eating and drinking in the workplace.

Ensure good ventilation/exhaustion at the workplace.

Information about fire - and explosion protection: Keep respiratory protective device available.

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: Not required.

Further information about storage conditions: Recommended storage temperature between 5 and 25 °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

1477-55-0 m-phenylenebis(methylamine)

Dermal	DNEL Langdurig	0.33 mg/kg KG/d (LT)
Inhalative	DNEL	1.2 mg/m ³ (LT)

38294-64-3 4,4-isopropylidenediphenol oligomer reaction product with 1-chloro-2,3-epoxypropane reaction product with 3 aminomethyl-3,3,3-trimethylcyclohexylamine

Oral	DNEL	0.526 mg/kg (Consumer)
Inhalative	DNEL Inademing langdurig	0.073 Langdurig (wrk)

61788-44-1 phenol, styrenated

Dermal	DNEL Langdurig	6.25 mg/kg KG/d (wrk)
Inhalative	DNEL	11.02 mg/m ³ (wrk)

PNECs

1477-55-0 m-phenylenebis(methylamine)

PNEC mg/l	0.009 mg/l (Sea Water)
	0.094 mg/l (Fresh Water)

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PNEC mg/kg	0.045 mg/kg (Soil) 0.043 mg/kg (Sea Water Sediment) 0.43 mg/kg (Fresh Water Sediment)
38294-64-3 4,4-isopropylidenediphenol oligomer reaction product with 1-chloro-2,3-epoxypropane reaction product with 3 aminomethyl-3,3,3-trimethylcyclohexylamine	
PNEC mg/l	0.006 mg/l (Sea Water) 0.578 mg/l (Sea Water Sediment) 0.06 mg/l (Fresh Water) 5.784 mg/l (Fresh Water Sediment)
PNEC mg/kg	1.121 mg/kg (Soil)
61788-44-1 phenol, styrenated	
PNEC mg/l	0.001 mg/l (Fresh Water)
PNEC mg/kg	31,524.731 mg/kg (Soil) 65,778.168 mg/kg (Sea Water Sediment) 65,778.168 mg/kg (Fresh Water Sediment)
90-72-2 2,4,6-tris(dimethylaminomethyl)phenol	
PNEC mg/l	0.008 mg/l (Sea Water) 0.084 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.

Wash hands before breaks and at the end of work.

Avoid contact with the eyes and skin.

· **Respiratory protection:**

Respiratory protection should be worn if the TLV value is possibly exceeded. If no TLV values exist, wear respiratory protection if adverse effects (such as respiratory irritation) of discomfort occur, or when indicated by your risk assessment process. No respiratory protection should be required for most conditions. In case of discomfort, use an approved air purifying device. Use an EC approved respirator: Organic vapor cartridge with a particulate pre-filter, type AP2.

If no TLV values exist, wear respiratory protection if adverse effects (such as respiratory irritation) or discomfort occur, or when indicated by your risk assessment process.

In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use self-contained respiratory protective device.

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.

Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.

Selection of the glove material is dependant on the penetration times, rates of diffusion and degradation.

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· **Material of gloves**

Use chemical resistant gloves classified under EN374: gloves for protection against chemicals and micro-organisms. Examples of preferred glove materials that form a barrier. Butyl rubber Ethyl vinyl alcohol laminate ("EVAL") - Nitrile. Neoprene. Nitrile / butadiene rubber ("nitrile or" NBR ") Polyvinyl chloride (" PVC or "vinyl"). If prolonged or frequently repeated contact can occur, gloves with a protection class 6 (breakthrough time greater than 480 minutes according to EN 374) are recommended, and if only short-term contact is expected, gloves with a protection class of 1 or higher (breakthrough time greater than 10 minutes are followed) EN 374) recommended.

The selection of suitable gloves does not only depend on the material, but also on further aspects of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

· **Penetration time of glove material**

The exact break through time has to be established by the manufacturer of the protective gloves and has to be observed.

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

Butyl rubber

Nitrile rubber

· **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**

· **Physical state**

Fluid

· **Colour:**

Amber coloured

· **Odour:**

Amine-like

· **Odour threshold:**

Not determined.

· **Melting point/freezing point:**

Undetermined.

· **Boiling point or initial boiling point and boiling range**

>250 °C

· **Flammability**

Not applicable.

· **Lower and upper explosion limit**

· **Lower:**

Not determined.

· **Upper:**

Not determined.

· **Flash point:**

>94 °C

· **Auto-ignition temperature:**

Product is not self-igniting.

· **Decomposition temperature:**

Not determined.

· **pH at 20 °C**

>10

· **Viscosity:**

· **Kinematic viscosity**

Not determined.

· **Dynamic at 20 °C:**

700-900 mPas

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· Solubility	
· water:	<i>Partly soluble, not miscible with water.</i>
· Partition coefficient n-octanol/water (log value)	<i>Not determined.</i>
· Vapour pressure:	<i>Not determined.</i>
· Density and/or relative density	
· Density:	<i>Not determined.</i>
· Relative density	<i>Not determined.</i>
· Vapour density	<i>Not determined.</i>
· 9.2 Other information	
· Appearance:	
· Form:	<i>Fluid</i>
· Important information on protection of health and environment, and on safety.	
· Ignition temperature:	<i>275 °C</i>
· Explosive properties:	<i>Product does not present an explosion hazard.</i>
· Change in condition	
· Evaporation rate	<i>Not determined.</i>
· Information with regard to physical hazard classes	
· Explosives	<i>Void</i>
· Flammable gases	<i>Void</i>
· Aerosols	<i>Void</i>
· Oxidising gases	<i>Void</i>
· Gases under pressure	<i>Void</i>
· Flammable liquids	<i>Void</i>
· Flammable solids	<i>Void</i>
· Self-reactive substances and mixtures	<i>Void</i>
· Pyrophoric liquids	<i>Void</i>
· Pyrophoric solids	<i>Void</i>
· Self-heating substances and mixtures	<i>Void</i>
· Substances and mixtures, which emit flammable gases in contact with water	<i>Void</i>
· Oxidising liquids	<i>Void</i>
· Oxidising solids	<i>Void</i>
· Organic peroxides	<i>Void</i>
· Corrosive to metals	<i>Void</i>
· Desensitised explosives	<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.*

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- **10.5 Incompatible materials:** No further relevant information available.
- **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** Harmful if swallowed or if inhaled.

- **LD/LC50 values relevant for classification:**

1477-55-0 m-phenylenebis(methylamine)

Oral	LD50	930 mg/kg (rat)
Dermal	LD50	>3,100 mg/kg (rabbit)
Inhalative	LC50/4 h	1.34 mg/l (rat)

38294-64-3 4,4-isopropylidenediphenol oligomer reaction product with 1-chloro-2,3-epoxypropane reaction product with 3 aminomethyl-3,3,3-trimethylcyclohexylamine

Oral	LD50	1,030 mg/kg (rat)
Dermal	LD50	>2,000 mg/kg (rat)

61788-44-1 phenol, styrenated

Oral	LD50	>2,000 mg/kg (rat)
Dermal	LD50	>7,940 mg/kg (rabbit)

90-72-2 2,4,6-tris(dimethylaminomethyl)phenol

Oral	LD50	2,169 mg/kg (rat)
	ATE	500 mg/kg (Not specified)
		500 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.

- **11.2 Information on other hazards**

- **Endocrine disrupting properties**

61788-44-1 phenol, styrenated

List II

SECTION 12: Ecological information

- **12.1 Toxicity**

- **Aquatic toxicity:**

1477-55-0 m-phenylenebis(methylamine)

LC50/96h	87.6 mg/l (<i>Oryzias latipes</i>)
ErC50/72 h	20.3 mg/l (<i>Se</i>)
	20.3 mg/l (<i>Pseudokirchnerella subcapitata</i>)
EC50/48 h	16 mg/l (<i>DM</i>)

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38294-64-3 4,4-isopropylidenediphenol oligomer reaction product with 1-chloro-2,3-epoxypropane reaction product with 3 aminomethyl-3,3,3-trimethylcyclohexylamine

LC50/96h 110 mg/l (fish)

EC50/72 h >50 mg/l (algae)

EC50/48 h 23 mg/l (daphnia)

61788-44-1 phenol, styrenated

LC50/96h 1-10 mg/l (BR)

90-72-2 2,4,6-tris(dimethylaminomethyl)phenol

LC50/96h 175 mg/l (Cyprinus Carpio)

ErC50/72 h 84 mg/l (Demodermus subspicatus)

EC50/48 h 718 mg/l (Palaemonetes vulgaris)

LC50/96 h 175 mg/l (Cyprinus Carpio)

12.2 Persistence and degradability
1477-55-0 m-phenylenebis(methylamine)

OECD 301-B 49 %/28 d (Not specified)

90-72-2 2,4,6-tris(dimethylaminomethyl)phenol

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

12.3 Bioaccumulative potential
1477-55-0 m-phenylenebis(methylamine)

Verdelingscoëfficiënt n-octanol/water 0.18 [---] (log Pow) (Not specified)

38294-64-3 4,4-isopropylidenediphenol oligomer reaction product with 1-chloro-2,3-epoxypropane reaction product with 3 aminomethyl-3,3,3-trimethylcyclohexylamine

Bioaccumulatie 2 (Not specified)

61788-44-1 phenol, styrenated

BCF 69-190 BCF (Not specified)

12.4 Mobility in soil No further relevant information available.

12.5 Results of PBT and vPvB assessment

· **PBT:** Not applicable.

· **vPvB:** Not applicable.

· **12.6 Endocrine disrupting properties** For information on endocrine disrupting properties see section 11.

12.7 Other adverse effects

· **Remark:** Harmful to fish

Additional ecological information:
General notes:

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

Must not reach sewage water or drainage ditch undiluted or unneutralised.

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

Avoid transfer into the environment.

Harmful to aquatic organisms

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SECTION 13: Disposal considerations

- **13.1 Waste treatment methods**
- **Recommendation**
Must not be disposed together with household garbage. Do not allow product to reach sewage system.
- **Uncleaned packaging:**
- **Recommendation:** *Disposal must be made according to official regulations.*

SECTION 14: Transport information

- | | |
|---|--|
| <ul style="list-style-type: none"> · 14.1 UN number or ID number · ADR, IMDG, IATA | UN2735 |
| <ul style="list-style-type: none"> · 14.2 UN proper shipping name · ADR · IMDG, IATA | <p><i>2735 AMINES, LIQUID, CORROSIVE, N.O.S. (m-phenylenebis(methylamine), 4,4-isopropylideendiphenol oligomeer reactieproduct met 1-chloor-2,3-epoxypropan, reactieproduct met 3-aminomethyl-3,5,5-trimethylcyclohexylamine)</i></p> <p><i>AMINES, LIQUID, CORROSIVE, N.O.S. (m-phenylenebis(methylamine), 4,4-isopropylideendiphenol oligomeer reactieproduct met 1-chloor-2,3-epoxypropan, reactieproduct met 3-aminomethyl-3,5,5-trimethylcyclohexylamine)</i></p> |
| <ul style="list-style-type: none"> · 14.3 Transport hazard class(es) · ADR, IMDG, IATA | <p></p> <ul style="list-style-type: none"> · Class · Label |
| <ul style="list-style-type: none"> · 14.4 Packing group · ADR, IMDG, IATA | <p>8 Corrosive substances.</p> <p>8</p> <p>II</p> |
| <ul style="list-style-type: none"> · 14.5 Environmental hazards: | Not applicable. |
| <ul style="list-style-type: none"> · 14.6 Special precautions for user · Hazard identification number (Kemler code): · EMS Number: · Segregation groups · Stowage Category · Segregation Code | <p><i>Warning: Corrosive substances.</i></p> <p>80</p> <p>F-A,S-B</p> <p>Alkalis</p> <p>A</p> <p>SG35 Stow "separated from" SGG1-acids</p> |
| <ul style="list-style-type: none"> · 14.7 Maritime transport in bulk according to IMO instruments | Not applicable. |

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· **Transport/Additional information:**

· **ADR**

· **Transport category** 2
 · **Tunnel restriction code** E

· **UN "Model Regulation":**

UN 2735 AMINES, LIQUID, CORROSIVE, N.O.S. (M-PHENYLENEBIS(METHYLAMINE), 4,4-ISOPROPYLIDEENDIPHENOL OLIGOMEER REACTIEPRODUCT MET 1-CHLOOR-2,3-EPOXYPROPAAN, REACTIEPRODUCT MET 3-A M I N O M E T H Y L - 3 , 5 , 5 - TRIMETHYLCYCLOHEXYLAMINE), 8, II

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.*

· **National regulations:**

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

· **Other regulations, limitations and prohibitive regulations**

· **Substances of very high concern (SVHC) according to REACH, Article 57**

None of the ingredients is listed.

· **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.

· **Relevant phrases**

H302 Harmful if swallowed.

H314 Causes severe skin burns and eye damage.

H317 May cause an allergic skin reaction.

H318 Causes serious eye damage.

H332 Harmful if inhaled.

H411 Toxic to aquatic life with long lasting effects.

H412 Harmful to aquatic life with long lasting effects.

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

· **Contact:** *Ing. T.W. Breeuwer*

· **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

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*ELINCS: European List of Notified Chemical Substances**CAS: Chemical Abstracts Service (division of the American Chemical Society)**DNEL: Derived No-Effect Level (REACH)**PNEC: Predicted No-Effect Concentration (REACH)**LC50: Lethal concentration, 50 percent**LD50: Lethal dose, 50 percent**PBT: Persistent, Bioaccumulative and Toxic**SVHC: Substances of Very High Concern**vPvB: very Persistent and very Bioaccumulative**Acute Tox. 4: Acute toxicity – Category 4**Skin Corr. 1B: Skin corrosion/irritation – Category 1B**Skin Corr. 1C: Skin corrosion/irritation – Category 1C**Eye Dam. 1: Serious eye damage/eye irritation – Category 1**Skin Sens. 1: Skin sensitisation – Category 1**Skin Sens. 1B: Skin sensitisation – Category 1B**Aquatic Chronic 2: Hazardous to the aquatic environment - long-term aquatic hazard – Category 2**Aquatic Chronic 3: Hazardous to the aquatic environment - long-term aquatic hazard – Category 3**** Data compared to the previous version altered.**

GB