

## SAFETY DATA SHEET

# mira 3650 multipox

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

#### 1.1. Product identifier

Trade name

**mira 3650 multipox**

Unique formula identifier (UFI)

**RD3A-T0K3-Q005-8H8H**

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

Relevant identified uses of the substance or mixture

**Surface treatment**

Uses advised against

**No special**

#### 1.3. Details of the supplier of the safety data sheet

Company and address

**mira byggeprodukter a/s**

Egegårdsvej 2

4621 Gadstrup

+45 46 19 19 46

[www.mira.eu.com](http://www.mira.eu.com)

Contact person

-

E-mail

[info@mira.eu.com](mailto:info@mira.eu.com)

SDS date

21-09-2021

SDS Version

3.0

Date of previous version

2021-09-17 (3.0)

#### 1.4. Emergency telephone number

Contact The National Poisons Information Service (dial 111, 24 h service).

See section 4 "First aid measures".

### SECTION 2: Hazards identification

#### 2.1. Classification of the substance or mixture

Skin Corr. 1B; H314, Causes severe skin burns and eye damage.

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

Eye Dam. 1; H318, Causes serious eye damage.

Aquatic Chronic 3; H412, Harmful to aquatic life with long lasting effects.

#### 2.2. Label elements

Hazard pictogram(s)



Signal word

**Danger**

Hazard statement(s)

- Causes severe skin burns and eye damage. (H314)
- May cause an allergic skin reaction. (H317)
- Harmful to aquatic life with long lasting effects. (H412)

Safety statement(s)

General

- If medical advice is needed, have product container or label at hand. (P101)
- Keep out of reach of children. (P102)

Prevention

- Do not breathe vapour. (P260)
- Avoid release to the environment. (P273)
- Wear protective gloves/protective clothing/eye protection/face protection. (P280)

Response

- IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. (P301+P330+P331)
- IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. (P305+P351+P338)
- Immediately call a POISON CENTER / doctor. (P310)

Storage

-

Disposal

- Dispose of contents/container to an approved waste disposal plant. (P501)

Hazardous substances

- Dolomite
- benzyl alcohol
- 3-aminomethyl-3,5,5-trimethylcyclohexylamine oxirane, mono[(C12-14-alkyloxy)methyl] derivs.
- 4,4'-Isopropylidenediphenol, oligomeric reaction products with 1-chloro-2,3-epoxypropane, reaction products with 3-aminomethyl-3,5,5-trimethylcyclohexylamine
- AMORPHOUS SILICA
- Titanium dioxide
- Phenol, styrenated
- 2,2,4(or 2,4,4)-trimethylhexane-1,6-diamine

2.3. Other hazards

Additional labelling

EUH205, Contains epoxy constituents. May produce an allergic reaction.

Additional warnings

This mixture/product does not contain any substances considered to meet the criteria classifying them as PBT and/or vPvB.

**SECTION 3: Composition/information on ingredients**

3.2 Mixtures

Product/substance	Identifiers	% w/w	Classification	Note
bis-[4-(2,3-epoxipropoxy)phenyl]propane	CAS No.: 1675-54-3	5-10%	Skin Irrit. 2, H315 (SCL: 50.00 %) Skin Sens. 1, H317 Eye Irrit. 2, H319 (SCL: 5.00 %) Aquatic Chronic 2, H411	
	EC No.: 216-823-5			
	REACH: 01-2119456619-26			
	Index No.: 603-073-00-2			
Formaldehyde, oligomeric reaction products with 1-	CAS No.: 9003-36-5	5-10%	Skin Irrit. 2, H315 (SCL: 25.00 %) Skin Sens. 1, H317	

chloro-2,3-epoxypropane and phenol	EC No.: 500-006-8 REACH: 01-2119454392-40 Index No.:		Aquatic Chronic 2, H411	
benzyl alcohol	CAS No.: 100-51-6 EC No.: 202-859-9 REACH: Index No.: 603-057-00-5	3-5%	Acute Tox. 4, H302 Acute Tox. 4, H332 Eye Irrit. 2, H319	[9]
3-aminomethyl-3,5,5-trimethylcyclohexylamine	CAS No.: 2855-13-2 EC No.: 220-666-8 REACH: 01-2119514687-32 Index No.: 612-067-00-9	3-5%	Acute Tox. 4, H302 Acute Tox. 4, H312 Skin Corr. 1B, H314 Skin Sens. 1, H317 Eye Dam. 1, H318 Aquatic Chronic 3, H412	
oxirane, mono[(C12-14-alkyloxy)methyl] derivs.	CAS No.: 68609-97-2 EC No.: 271-846-8 REACH: 01-2119485289-22 Index No.: 603-103-00-4	1-3%	Skin Irrit. 2, H315 Skin Sens. 1, H317	
4,4'-Isopropylidenediphenol, oligomeric reaction products with 1-chloro-2,3-epoxypropane, reaction products with 3-aminomethyl-3,5,5-trimethylcyclohexylamine	CAS No.: 38294-64-3 EC No.: 500-101-4 REACH: 01-2119965165-33 Index No.:	1-3%	Skin Corr. 1B, H314 Skin Sens. 1, H317 Eye Dam. 1, H318 Aquatic Chronic 3, H412	
Titanium dioxide	CAS No.: 13463-67-7 EC No.: 236-675-5 REACH: Index No.:	1-3%		
Phenol, styrenated	CAS No.: 61788-44-1 EC No.: 262-975-0 REACH: 01-2119980970-27 Index No.:	<1%	Skin Irrit. 2, H315 Skin Sens. 1, H317 Aquatic Chronic 2, H411	
m-phenylenebis(methylamine)	CAS No.: 1477-55-0 EC No.: 216-032-5 REACH: 01-2119480150-50 Index No.:	<1%	Acute Tox. 4, H302 Skin Corr. 1B, H314 Skin Sens. 1B, H317 Eye Dam. 1, H318 Acute Tox. 4, H332 Aquatic Chronic 3, H412 EUH071	

2,2,4(or 2,4,4)- trimethylhexane-1,6- diamine	CAS No.: 25513-64-8  EC No.: 247-063-2  REACH:  Index No.:	<1%	Acute Tox. 4, H302 Skin Sens. 1A, H317 Eye Dam. 1, H318 Skin Corr. 1A, H314
---	--	-----	--

-----

See full text of H-phrases in section 16. Occupational exposure limits are listed in section 8, if these are available.

Other information

## SECTION 4: First aid measures

### 4.1. Description of first aid measures

#### General information

In the case of accident: Contact a doctor or casualty department – take the label or this safety data sheet. Contact a doctor if in doubt about the injured person’s condition or if the symptoms persist. Never give an unconscious person water or other drink.

#### Inhalation

Upon breathing difficulties or irritation of the respiratory tract: Bring the person into fresh air and stay with him/her.

#### Skin contact

Remove contaminated clothing and shoes immediately. Ensure to wash exposed skin thoroughly with water and soap. Skin cleanser can be used. DO NOT use solvents or thinners.

If skin irritation occurs: Get medical advice/attention.

#### Eye contact

Upon irritation of the eye: Remove contact lenses. Flush eyes with plenty of water or salt water (20-30°C) for at least 15 minutes and continue until irritation stops. Make sure you flush under the upper and lower eyelids. Seek medical assistance immediately and continue flushing during transport.

#### Ingestion

Provide plenty of water for the person to drink and stay with him/her. In case of malaise, seek medical advice immediately and bring the safety data sheet or label from the product. Do not induce vomiting, unless recommended by the doctor. Have the victim lean forward with head down to avoid inhalation of- or choking on vomited material.

#### Burns

Not applicable

### 4.2. Most important symptoms and effects, both acute and delayed

**Tissue-damaging effects:** This product contains substances with skin corrosive properties. Inhaled vapour or aerosols may produce adverse effects to lungs, -irritations and burns in the respiratory organs -as well as coughing. Dermal contact and contact with the eye cause irreversible effects.

**Sensitisation:** This product contains substances, which may trigger allergic reaction upon dermal contact.

Manifestation of allergic reactions typically takes place within 12-72 hours after exposure.

**Irritation effects:** This product contains substances, which may cause irritation upon exposure to skin, eyes or lungs. Exposure may result in an increased absorption potential of other hazardous substances at the area of exposure.

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

IF exposed or concerned:

Get immediate medical advice/attention.

#### Information to medics

Bring this safety data sheet or the label from this product.

## SECTION 5: Firefighting measures

### 5.1. Extinguishing media

Suitable extinguishing media: Alcohol-resistant foam, carbon dioxide, powder, water mist.

Unsuitable extinguishing media: Waterjets should not be used, since they can spread the fire.

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

Fire will result in dense smoke. Exposure to combustion products may harm your health. Closed containers, which are exposed to fire, should be cooled with water. Do not allow fire-extinguishing water to enter the sewage system and nearby surface waters.

If the product is exposed to high temperatures, e.g. in the event of fire, dangerous decomposition compounds are produced. These are:

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

Carbon oxides (CO / CO<sub>2</sub>).

#### 5.3. Advice for firefighters

Wear self-contained breathing apparatus and protective clothing to prevent contact. Upon direct exposure contact The National Poisons Information Service (dial 111, 24 h service) in order to obtain further advice.

### SECTION 6: Accidental release measures

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

Avoid direct contact with spilled substances.

#### 6.2. Environmental precautions

Avoid discharge to lakes, streams, sewers, etc. In the event of leakage to the surroundings, contact local environmental authorities.

#### 6.3. Methods and material for containment and cleaning up

Use sand, earth, vermiculite, diatomaceous earth to contain and collect non-combustible absorbent materials and place in container for disposal, according to local regulations.

To the extent possible cleaning is performed with normal cleaning agents. Avoid use of solvents.

#### 6.4. Reference to other sections

See section 13 on "Disposal considerations" in regard of handling of waste.

See section 8 "Exposure controls/personal protection" for protective measures.

### SECTION 7: Handling and storage

#### 7.1. Precautions for safe handling

It is recommended to install waste collection trays in order to prevent emissions to the waste water system and surrounding environment.

Avoid direct contact with the product.

Smoking, drinking and consumption of food is not allowed in the work area.

See section 8 "Exposure controls/personal protection" for information on personal protection.

#### 7.2. Conditions for safe storage, including any incompatibilities

Store in tightly closed containers and store protected from moisture and light. Containers should be dated when opened and tested periodically for the presence of peroxides. Do not exceed storage time limits.

Containers that have been opened must be carefully resealed and kept upright to prevent leakage.

##### Recommended storage material

Always store in containers of the same material as the original container.

##### Storage temperature

Store in a closed original container in a dry and well-ventilated place.

##### Incompatible materials

Strong acids, strong bases, strong oxidizing agents, and strong reducing agents.

#### 7.3. Specific end use(s)

This product should only be used for applications quoted in section 1.2

### SECTION 8: Exposure controls/personal protection

#### 8.1. Control parameters

—

Titanium dioxide

Long term exposure limit (8 hours) (mg/m<sup>3</sup>): 10(inhalable)/4(respirable)

The Control of Substances Hazardous to Health Regulations 2002. SI 2002/2677 The Stationery Office 2002.  
EH40/2005 Workplace exposure limits (Fourth Edition 2020)

DNEL

<b>Product/substance</b>	bis-[4-(2,3-epoxipropoxy)phenyl]propane
<b>DNEL</b>	12,25 mg/m <sup>3</sup>
<b>Route of exposure</b>	Inhalation
<b>Duration</b>	Short term – Systemic effects
<b>Product/substance</b>	Formaldehyde, oligomeric reaction products with 1-chloro-2,3-epoxypropane and phenol
<b>DNEL</b>	29.39 mg/m <sup>3</sup>
<b>Route of exposure</b>	Inhalation
<b>Duration</b>	Long term – Systemic effects
<b>Product/substance</b>	benzyl alcohol
<b>DNEL</b>	450 mg/m <sup>3</sup>
<b>Route of exposure</b>	Inhalation
<b>Duration</b>	Short term – Systemic effects - Workers
<b>Product/substance</b>	3-aminomethyl-3,5,5-trimethylcyclohexylamine
<b>DNEL</b>	20,1 mg/m <sup>3</sup>
<b>Route of exposure</b>	Inhalation
<b>Duration</b>	Short term – Systemic effects
<b>Product/substance</b>	3-aminomethyl-3,5,5-trimethylcyclohexylamine
<b>DNEL</b>	0,526 mg/kg legemsvægt/dag
<b>Route of exposure</b>	Oral
<b>Duration</b>	Long term – Systemic effects
<b>Product/substance</b>	oxirane, mono[[C12-14-alkyloxy)methyl] derivs.
<b>DNEL</b>	3,6 mg/m <sup>3</sup>
<b>Route of exposure</b>	Inhalation
<b>Duration</b>	Long term – Systemic effects
<b>Product/substance</b>	m-phenylenebis(methylamine)
<b>DNEL</b>	0,2 mg/m <sup>3</sup>
<b>Route of exposure</b>	Inhalation
<b>Duration</b>	Long term – Local effects
<b>Product/substance</b>	m-phenylenebis(methylamine)
<b>DNEL</b>	0,33 mg/kg
<b>Route of exposure</b>	Dermal

According to EC-Regulation 1907/2006 (REACH), annex II, as implemented by EC-Regulation 2015/830

<b>Duration</b>	Long term – Systemic effects
<b>Product/substance</b>	m-phenylenebis(methylamine)
<b>DNEL</b>	1,2 mg/m <sup>3</sup>
<b>Route of exposure</b>	Inhalation
<b>Duration</b>	Long term – Systemic effects

PNEC

<b>Product/substance</b>	Formaldehyde, oligomeric reaction products with 1-chloro-2,3-epoxypropane and phenol
<b>PNEC</b>	10 mg/l
<b>Route of exposure</b>	Sewage treatment plant
<b>Duration of Exposure</b>	
<b>Product/substance</b>	3-aminomethyl-3,5,5-trimethylcyclohexylamine
<b>PNEC</b>	0,06 mg/l
<b>Route of exposure</b>	Freshwater
<b>Duration of Exposure</b>	
<b>Product/substance</b>	3-aminomethyl-3,5,5-trimethylcyclohexylamine
<b>PNEC</b>	0,006 mg/l
<b>Route of exposure</b>	Marine water
<b>Duration of Exposure</b>	
<b>Product/substance</b>	3-aminomethyl-3,5,5-trimethylcyclohexylamine
<b>PNEC</b>	5,784 mg/kg
<b>Route of exposure</b>	Freshwater sediment
<b>Duration of Exposure</b>	
<b>Product/substance</b>	3-aminomethyl-3,5,5-trimethylcyclohexylamine
<b>PNEC</b>	0578 mg/kg
<b>Route of exposure</b>	Marine water sediment
<b>Duration of Exposure</b>	
<b>Product/substance</b>	3-aminomethyl-3,5,5-trimethylcyclohexylamine
<b>PNEC</b>	1,121 mg/kg
<b>Route of exposure</b>	Soil
<b>Duration of Exposure</b>	
<b>Product/substance</b>	3-aminomethyl-3,5,5-trimethylcyclohexylamine
<b>PNEC</b>	3,18 mg/l
<b>Route of exposure</b>	Sewage treatment plant
<b>Duration of Exposure</b>	

According to EC-Regulation 1907/2006 (REACH), annex II, as implemented by EC-Regulation 2015/830

<b>Product/substance</b>	oxirane, mono[[C12-14-alkyloxy)methyl] derivs.
<b>PNEC</b>	30,72 mg/kg
<b>Route of exposure</b>	Marine water sediment
<b>Duration of Exposure</b>	
<b>Product/substance</b>	oxirane, mono[[C12-14-alkyloxy)methyl] derivs.
<b>PNEC</b>	307,16 mg/kg
<b>Route of exposure</b>	Freshwater sediment
<b>Duration of Exposure</b>	
<b>Product/substance</b>	m-phenylenebis(methylamine)
<b>PNEC</b>	0,094 mg/l
<b>Route of exposure</b>	Freshwater
<b>Duration of Exposure</b>	
<b>Product/substance</b>	m-phenylenebis(methylamine)
<b>PNEC</b>	0,009 mg/l
<b>Route of exposure</b>	Marine water
<b>Duration of Exposure</b>	
<b>Product/substance</b>	m-phenylenebis(methylamine)
<b>PNEC</b>	0,152 mg/l
<b>Route of exposure</b>	Intermittent release
<b>Duration of Exposure</b>	
<b>Product/substance</b>	m-phenylenebis(methylamine)
<b>PNEC</b>	10 mg/l
<b>Route of exposure</b>	Sewage treatment plant
<b>Duration of Exposure</b>	
<b>Product/substance</b>	m-phenylenebis(methylamine)
<b>PNEC</b>	0,43 mg/kg
<b>Route of exposure</b>	Freshwater sediment
<b>Duration of Exposure</b>	
<b>Product/substance</b>	m-phenylenebis(methylamine)
<b>PNEC</b>	0,045 mg/kg
<b>Route of exposure</b>	Soil
<b>Duration of Exposure</b>	
<b>Product/substance</b>	m-phenylenebis(methylamine)
<b>PNEC</b>	0,043 mg/kg
<b>Route of exposure</b>	Marine water sediment



## Duration of Exposure

### 8.2. Exposure controls

Compliance with the given occupational exposure limits values should be controlled on a regular basis.

#### General recommendations

Smoking, drinking and consumption of food is not allowed in the work area.

#### Exposure scenarios

There are no exposure scenarios implemented for this product.

#### Exposure limits

Professional users are subjected to the legally set maximum concentrations for occupational exposure. See occupational hygiene limit values above.

#### Appropriate technical measures

The formation of vapours must be kept at a minimum and below current limit values (see above). Installation of a local exhaust system if normal air flow in the work room is not sufficient is recommended. Ensure emergency eyewash and -showers are clearly marked.

#### Hygiene measures

In between use of the product and at the end of the working day all exposed areas of the body must be washed thoroughly. Always wash hands, forearms and face.

#### Measures to avoid environmental exposure

Keep damming materials near the workplace. If possible, collect spillage during work.

### Individual protection measures, such as personal protective equipment

#### Generally

Use only CE marked protective equipment.

#### Respiratory Equipment

Type	Class	Colour	Standards
In case of insufficient ventilation, wear respiratory protection. Filter type: A / AX. Respiratory protection must comply with one of the following standards: EN 136/140/145			

### Skin protection

Recommended	Type/Category	Standards
Remove soiled clothing and wash skin thoroughly with soap and water when work is complete.		

### Hand protection

Material	Glove thickness (mm)	Breakthrough time (min.)	Standards
Nitrile	-	-	EN374-2



### Eye protection

Type	Standards
------	-----------

Wear safety goggles if there is a risk of splashes in the eyes. Eye protection must comply with EN 166.	EN 166
---	--------



## SECTION 9: Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

Form

Paste

Colour

Various colours

Odour

Mild

Odour threshold (ppm)

Testing not relevant or not possible due to nature of the product.

pH

Testing not relevant or not possible due to nature of the product.

Density (g/cm<sup>3</sup>)

Testing not relevant or not possible due to nature of the product.

Viscosity

Testing not relevant or not possible due to nature of the product.

Phase changes

Melting point (°C)

Testing not relevant or not possible due to nature of the product.

Boiling point (°C)

Testing not relevant or not possible due to nature of the product.

Vapour pressure

Testing not relevant or not possible due to nature of the product.

Vapour density

Testing not relevant or not possible due to nature of the product.

Decomposition temperature (°C)

Testing not relevant or not possible due to nature of the product.

Evaporation rate (n-butylacetate = 100)

Data on fire and explosion hazards

Flash point (°C)

Testing not relevant or not possible due to nature of the product.

Ignition (°C)

Testing not relevant or not possible due to nature of the product.

Auto flammability (°C)

Testing not relevant or not possible due to nature of the product.

Explosion limits (% v/v)

Testing not relevant or not possible due to nature of the product.

Explosive properties

Testing not relevant or not possible due to nature of the product.

Oxidizing properties

Testing not relevant or not possible due to nature of the product.

Solubility

Solubility in water

Testing not relevant or not possible due to nature of the product.

n-octanol/water coefficient

Testing not relevant or not possible due to nature of the product.

Solubility in fat (g/L)

Testing not relevant or not possible due to nature of the product.

9.2. Other information

## SECTION 10: Stability and reactivity

10.1. Reactivity

No data available

10.2. Chemical stability

The product is stable under the conditions, noted in section 7 "Handling and storage".

10.3. Possibility of hazardous reactions

No special

10.4. Conditions to avoid

No special

10.5. Incompatible materials

Strong acids, strong bases, strong oxidizing agents, and strong reducing agents.

10.6. Hazardous decomposition products

The product is not degraded when used as specified in section 1.

## SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity

<b>Product/substance</b>	bis-[4-(2,3-epoxipropoxy)phenyl]propane
<b>Test method</b>	
<b>Species</b>	Rat
<b>Route of exposure</b>	
<b>Test</b>	LD50
<b>Result</b>	>2000 mg/kg
<b>Other information</b>	
<b>Product/substance</b>	Formaldehyde, oligomeric reaction products with 1-chloro-2,3-epoxypropane and phenol
<b>Test method</b>	
<b>Species</b>	Rat
<b>Route of exposure</b>	Dermal
<b>Test</b>	LD50
<b>Result</b>	>2000 mg/kg mg/L
<b>Other information</b>	
<b>Product/substance</b>	oxirane, mono[[C12-14-alkyloxy)methyl] derivs.
<b>Test method</b>	
<b>Species</b>	Rabbit
<b>Route of exposure</b>	Dermal
<b>Test</b>	

<b>Result</b>	>4000 mg/kg, 4,5 ml/kg mg/kg
<b>Other information</b>	

Skin corrosion/irritation

<b>Product/substance</b>	3-aminomethyl-3,5,5-trimethylcyclohexylamine
<b>Test method</b>	
<b>Species</b>	Rabbit
<b>Duration</b>	No data available.
<b>Result</b>	Adverse effect observed (Corrosive)
<b>Other information</b>	

<b>Product/substance</b>	4,4'-Isopropylidenediphenol, oligomeric reaction products with 1-chloro-2,3-epoxypropane, reaction products with 3-aminomethyl-3,5,5-trimethylcyclohexylamine
<b>Test method</b>	
<b>Species</b>	
<b>Duration</b>	No data available.
<b>Result</b>	Adverse effect observed (Corrosive)
<b>Other information</b>	

<b>Product/substance</b>	Phenol, styrenated
<b>Test method</b>	OECD 404
<b>Species</b>	Rabbit
<b>Duration</b>	No data available.
<b>Result</b>	Adverse effect observed (Irritating)
<b>Other information</b>	

<b>Product/substance</b>	m-phenylenebis(methylamine)
<b>Test method</b>	
<b>Species</b>	Rat
<b>Duration</b>	No data available.
<b>Result</b>	Adverse effect observed (Corrosive)
<b>Other information</b>	

<b>Product/substance</b>	2,2,4(or 2,4,4)-trimethylhexane-1,6-diamine
<b>Test method</b>	
<b>Species</b>	Rabbit
<b>Duration</b>	No data available.
<b>Result</b>	Adverse effect observed (Highly corrosive)
<b>Other information</b>	

Causes severe skin burns and eye damage.

Serious eye damage/irritation

<b>Product/substance</b>	4,4'-Isopropylidenediphenol, oligomeric reaction products with 1-chloro-2,3-epoxypropane, reaction products with 3-aminomethyl-3,5,5-trimethylcyclohexylamine
<b>Test method</b>	
<b>Species</b>	
<b>Duration</b>	No data available.
<b>Result</b>	Adverse effect observed (Causes serious eye damage)
<b>Other information</b>	
<b>Product/substance</b>	Phenol, styrenated
<b>Test method</b>	OECD 405 Acute Eye Irritation/Corrosion
<b>Species</b>	Rabbit
<b>Duration</b>	24 h
<b>Result</b>	No adverse effect observed (Not irritating)
<b>Other information</b>	
<b>Product/substance</b>	2,2,4(or 2,4,4)-trimethylhexane-1,6-diamine
<b>Test method</b>	OECD 405 Acute Eye Irritation/Corrosion
<b>Species</b>	Rabbit
<b>Duration</b>	No data available.
<b>Result</b>	Adverse effect observed (Corrosive)
<b>Other information</b>	

Causes severe skin burns and eye damage.

Causes serious eye damage.

Respiratory sensitisation

<b>Product/substance</b>	3-aminomethyl-3,5,5-trimethylcyclohexylamine
<b>Test method</b>	OECD 406
<b>Species</b>	Guinea pig
<b>Result</b>	Adverse effect observed (sensitising)
<b>Other information</b>	
<b>Product/substance</b>	4,4'-Isopropylidenediphenol, oligomeric reaction products with 1-chloro-2,3-epoxypropane, reaction products with 3-aminomethyl-3,5,5-trimethylcyclohexylamine
<b>Test method</b>	
<b>Species</b>	
<b>Result</b>	Adverse effect observed (sensitising)
<b>Other information</b>	
<b>Product/substance</b>	m-phenylenebis(methylamine)
<b>Test method</b>	

<b>Species</b>	
<b>Result</b>	Adverse effect observed (sensitising)
<b>Other information</b>	
<b>Product/substance</b>	2,2,4(or 2,4,4)-trimethylhexane-1,6-diamine
<b>Test method</b>	OECD 406
<b>Species</b>	Guinea pig
<b>Result</b>	Adverse effect observed (sensitising)
<b>Other information</b>	

#### Skin sensitisation

<b>Product/substance</b>	4,4'-Isopropylidenediphenol, oligomeric reaction products with 1-chloro-2,3-epoxypropane, reaction products with 3-aminomethyl-3,5,5-trimethylcyclohexylamine
<b>Test method</b>	
<b>Species</b>	
<b>Result</b>	Adverse effect observed (sensitising)
<b>Other information</b>	

#### Germ cell mutagenicity

<b>Product/substance</b>	bis-[4-(2,3-epoxipropoxi)phenyl]propane
<b>Test method</b>	OECD 476
<b>Species</b>	
<b>Conclusion</b>	Adverse effect observed
<b>Other information</b>	
<b>Product/substance</b>	bis-[4-(2,3-epoxipropoxi)phenyl]propane
<b>Test method</b>	OECD 471
<b>Species</b>	
<b>Conclusion</b>	Adverse effect observed
<b>Other information</b>	
<b>Product/substance</b>	Formaldehyde, oligomeric reaction products with 1-chloro-2,3-epoxypropane and phenol
<b>Test method</b>	OECD 471
<b>Species</b>	
<b>Conclusion</b>	Adverse effect observed
<b>Other information</b>	
<b>Product/substance</b>	Formaldehyde, oligomeric reaction products with 1-chloro-2,3-epoxypropane and phenol
<b>Test method</b>	OECD 476
<b>Species</b>	

<b>Conclusion</b>	Adverse effect observed
<b>Other information</b>	
<b>Product/substance</b>	oxirane, mono[(C12-14-alkyloxy)methyl] derivs.
<b>Test method</b>	OECD 471
<b>Species</b>	
<b>Conclusion</b>	Adverse effect observed
<b>Other information</b>	
<b>Product/substance</b>	Phenol, styrenated
<b>Test method</b>	OECD 471
<b>Species</b>	salmonella typhimurium
<b>Conclusion</b>	Adverse effect observed
<b>Other information</b>	

#### 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.

#### Long term effects

Tissue-damaging effects: This product contains substances with skin corrosive properties. Inhaled vapour or aerosols may produce adverse effects to lungs, -irritations and burns in the respiratory organs -as well as coughing. Dermal contact and contact with the eye cause irreversible effects.

#### Other information

bis-[4-(2,3-epoxipropoxy)phenyl]propane has been classified by IARC as a group 3 carcinogen.

Titanium dioxide has been classified by IARC as a group 2B carcinogen.

## SECTION 12: Ecological information

### 12.1. Toxicity

<b>Product/substance</b>	bis-[4-(2,3-epoxipropoxy)phenyl]propane
<b>Test method</b>	
<b>Species</b>	Algae
<b>Compartment</b>	
<b>Duration</b>	72 hours
<b>Test</b>	EC50
<b>Result</b>	9,4 mg/L
<b>Other information</b>	

According to EC-Regulation 1907/2006 (REACH), annex II, as implemented by EC-Regulation 2015/830

<b>Product/substance</b>	bis-[4-(2,3-epoxipropoxi)phenyl]propane
<b>Test method</b>	
<b>Species</b>	Fish
<b>Compartment</b>	
<b>Duration</b>	96 hours
<b>Test</b>	LC50
<b>Result</b>	1,5 mg/L
<b>Other information</b>	
<b>Product/substance</b>	bis-[4-(2,3-epoxipropoxi)phenyl]propane
<b>Test method</b>	
<b>Species</b>	Daphnia
<b>Compartment</b>	
<b>Duration</b>	48 hours
<b>Test</b>	EC50
<b>Result</b>	2,7 mg/L
<b>Other information</b>	
<b>Product/substance</b>	Formaldehyde, oligomeric reaction products with 1-chloro-2,3-epoxypropane and phenol
<b>Test method</b>	
<b>Species</b>	Algae
<b>Compartment</b>	
<b>Duration</b>	72 hours
<b>Test</b>	EC50
<b>Result</b>	1,8 mg/L
<b>Other information</b>	
<b>Product/substance</b>	Formaldehyde, oligomeric reaction products with 1-chloro-2,3-epoxypropane and phenol
<b>Test method</b>	
<b>Species</b>	Daphnia
<b>Compartment</b>	
<b>Duration</b>	48 hours
<b>Test</b>	EC50
<b>Result</b>	2,55 mg/L
<b>Other information</b>	
<b>Product/substance</b>	Formaldehyde, oligomeric reaction products with 1-chloro-2,3-epoxypropane and phenol
<b>Test method</b>	
<b>Species</b>	Fish



<b>Compartment</b>	
<b>Duration</b>	96 hours
<b>Test</b>	LC50
<b>Result</b>	2,54 mg/L
<b>Other information</b>	
<b>Product/substance</b>	benzyl alcohol
<b>Test method</b>	
<b>Species</b>	Fish
<b>Compartment</b>	
<b>Duration</b>	96 hours
<b>Test</b>	LC50
<b>Result</b>	460.00 mg/L
<b>Other information</b>	
<b>Product/substance</b>	3-aminomethyl-3,5,5-trimethylcyclohexylamine
<b>Test method</b>	
<b>Species</b>	Algae
<b>Compartment</b>	
<b>Duration</b>	72 hours
<b>Test</b>	EC50
<b>Result</b>	37 mg/L
<b>Other information</b>	
<b>Product/substance</b>	3-aminomethyl-3,5,5-trimethylcyclohexylamine
<b>Test method</b>	
<b>Species</b>	Fish
<b>Compartment</b>	
<b>Duration</b>	96 hours
<b>Test</b>	LC50
<b>Result</b>	110 mg/L
<b>Other information</b>	
<b>Product/substance</b>	3-aminomethyl-3,5,5-trimethylcyclohexylamine
<b>Test method</b>	
<b>Species</b>	Daphnia
<b>Compartment</b>	
<b>Duration</b>	48 hours
<b>Test</b>	EC50

<b>Result</b>	23 mg/L
<b>Other information</b>	
<b>Product/substance</b>	oxirane, mono[(C12-14-alkyloxy)methyl] derivs.
<b>Test method</b>	
<b>Species</b>	Daphnia
<b>Compartment</b>	
<b>Duration</b>	48 hours
<b>Test</b>	
<b>Result</b>	7,2 mg/L
<b>Other information</b>	
<b>Product/substance</b>	oxirane, mono[(C12-14-alkyloxy)methyl] derivs.
<b>Test method</b>	
<b>Species</b>	Fish
<b>Compartment</b>	
<b>Duration</b>	96 hours
<b>Test</b>	
<b>Result</b>	>100 mg/L
<b>Other information</b>	
<b>Product/substance</b>	oxirane, mono[(C12-14-alkyloxy)methyl] derivs.
<b>Test method</b>	
<b>Species</b>	Algae
<b>Compartment</b>	
<b>Duration</b>	72 hours
<b>Test</b>	IC50
<b>Result</b>	843,75 mg/L
<b>Other information</b>	
<b>Product/substance</b>	Phenol, styrenated
<b>Test method</b>	
<b>Species</b>	Fish
<b>Compartment</b>	
<b>Duration</b>	96 hours
<b>Test</b>	LC50
<b>Result</b>	> 1 - 10 mg/L
<b>Other information</b>	
<b>Product/substance</b>	Phenol, styrenated

<b>Test method</b>	
<b>Species</b>	Daphnia
<b>Compartment</b>	
<b>Duration</b>	3 hours
<b>Test</b>	EC50
<b>Result</b>	362 mg/L
<b>Other information</b>	
<b>Product/substance</b>	m-phenylenebis(methylamine)
<b>Test method</b>	
<b>Species</b>	Fish
<b>Compartment</b>	
<b>Duration</b>	96 hours
<b>Test</b>	LC50
<b>Result</b>	87,6 mg/L
<b>Other information</b>	
<b>Product/substance</b>	m-phenylenebis(methylamine)
<b>Test method</b>	
<b>Species</b>	Daphnia
<b>Compartment</b>	
<b>Duration</b>	48 hours
<b>Test</b>	EC50
<b>Result</b>	15,2 mg/L
<b>Other information</b>	
<b>Product/substance</b>	m-phenylenebis(methylamine)
<b>Test method</b>	
<b>Species</b>	Algae
<b>Compartment</b>	
<b>Duration</b>	72 hours
<b>Test</b>	EC50
<b>Result</b>	32,1 mg/L
<b>Other information</b>	
<b>Product/substance</b>	m-phenylenebis(methylamine)
<b>Test method</b>	
<b>Species</b>	microorganisms
<b>Compartment</b>	

<b>Duration</b>	No data available.
<b>Test</b>	EC50
<b>Result</b>	>1000 mg/L
<b>Other information</b>	
<b>Product/substance</b>	2,2,4(or 2,4,4)-trimethylhexane-1,6-diamine
<b>Test method</b>	
<b>Species</b>	Algae
<b>Compartment</b>	
<b>Duration</b>	72 hours
<b>Test</b>	EC50
<b>Result</b>	43,5 mg/L
<b>Other information</b>	
<b>Product/substance</b>	2,2,4(or 2,4,4)-trimethylhexane-1,6-diamine
<b>Test method</b>	
<b>Species</b>	Daphnia
<b>Compartment</b>	
<b>Duration</b>	24 h
<b>Test</b>	EC50
<b>Result</b>	31,5 mg/L
<b>Other information</b>	
<b>Product/substance</b>	2,2,4(or 2,4,4)-trimethylhexane-1,6-diamine
<b>Test method</b>	
<b>Species</b>	Fish
<b>Compartment</b>	
<b>Duration</b>	48 hours
<b>Test</b>	LC50
<b>Result</b>	174 mg/L
<b>Other information</b>	
<b>Product/substance</b>	2,2,4(or 2,4,4)-trimethylhexane-1,6-diamine
<b>Test method</b>	
<b>Species</b>	
<b>Compartment</b>	
<b>Duration</b>	56 days
<b>Test</b>	NOEC
<b>Result</b>	>=1000 mg/kg

**Other information**

12.2. Persistence and degradability

<b>Product/substance</b>	Formaldehyde, oligomeric reaction products with 1-chloro-2,3-epoxypropane and phenol
<b>Biodegradable</b>	No
<b>Test method</b>	
<b>Result</b>	ikke bionedbrydelig
<b>Product/substance</b>	benzyl alcohol
<b>Biodegradable</b>	Yes
<b>Test method</b>	OECD 301 A
<b>Result</b>	95-97 %
<b>Product/substance</b>	m-phenylenebis(methylamine)
<b>Biodegradable</b>	No
<b>Test method</b>	OECD 301 B
<b>Result</b>	ikke let bionedbrydelig

12.3. Bioaccumulative potential

<b>Product/substance</b>	bis-[4-(2,3-epoxipropoxi)phenyl]propane
<b>Test method</b>	
<b>Potential bioaccumulation</b>	No data available
<b>LogPow</b>	3,242 (25°C)
<b>BCF</b>	31
<b>Other information</b>	
<b>Product/substance</b>	Formaldehyde, oligomeric reaction products with 1-chloro-2,3-epoxypropane and phenol
<b>Test method</b>	
<b>Potential bioaccumulation</b>	No
<b>LogPow</b>	2,7 - 3,6
<b>BCF</b>	150
<b>Other information</b>	
<b>Product/substance</b>	benzyl alcohol
<b>Test method</b>	
<b>Potential bioaccumulation</b>	No
<b>LogPow</b>	1.1
<b>BCF</b>	1
<b>Other information</b>	

<b>Product/substance</b>	3-aminomethyl-3,5,5-trimethylcyclohexylamine
<b>Test method</b>	
<b>Potential bioaccumulation</b>	No data available
<b>LogPow</b>	0,99 (23°C)
<b>BCF</b>	No data available
<b>Other information</b>	
<b>Product/substance</b>	Phenol, styrenated
<b>Test method</b>	
<b>Potential bioaccumulation</b>	No data available
<b>LogPow</b>	> 4 (22 °C)
<b>BCF</b>	14.43
<b>Other information</b>	
<b>Product/substance</b>	2,2,4(or 2,4,4)-trimethylhexane-1,6-diamine
<b>Test method</b>	
<b>Potential bioaccumulation</b>	No data available
<b>LogPow</b>	-0,3 (25°C)
<b>BCF</b>	No data available
<b>Other information</b>	

#### 12.4. Mobility in soil

bis-[4-(2,3-epoxipropoxy)phenyl]propane

LogKoc = 445.00, Low mobility potential.

Formaldehyde, oligomeric reaction products with 1-chloro-2,3-epoxypropane and phenol

LogKoc = 4460.00, Low mobility potential.

benzyl alcohol

LogKoc = 5.00, Low mobility potential.

3-aminomethyl-3,5,5-trimethylcyclohexylamine

LogKoc = 928.00, Low mobility potential.

Phenol, styrenated

LogKoc = 856.10, Low mobility potential.

#### 12.5. Results of PBT and vPvB assessment

This mixture/product does not contain any substances considered to meet the criteria classifying them as PBT and/or vPvB.

#### 12.6. Other adverse effects

This product contains substances that are toxic to the environment. May result in adverse effects to aquatic organisms.

This product contains substances, which may cause adverse long-term effects to the aquatic environment.

### SECTION 13: Disposal considerations

#### 13.1. Waste treatment methods

Product is covered by the regulations on hazardous waste.

HP 8 – Corrosive

According to EC-Regulation 1907/2006 (REACH), annex II, as implemented by EC-Regulation 2015/830

Avoid discharge to lakes, streams, sewers, etc.  
 Dispose of contents/container to an approved waste disposal plant.  
 Regulation (EU) No 1357/2014 of 18 December 2014 on waste.

EWC code

- 17 09 03 Other construction and demolition wastes (including mixed wastes) containing dangerous substances - Unhardened material
- 17 09 04 Mixed construction and demolition wastes other than those mentioned in 17 09 01, 17 09 02 and 17 09 03 - Fully hardened material

Specific labelling

Not applicable

Contaminated packing

Packaging containing residues of the product must be disposed of similarly to the product.

## SECTION 14: Transport information

14.1 - 14.4

This product is within scope of the regulations of transport of dangerous goods.

ADR/RID

UN- or ID number	UN proper shipping name	Labels	Packing group	Tunnel restriction code
2735	AMINES, LIQUID, CORROSIVE, N.O.S. or POLYAMINES, LIQUID, CORROSIVE, N.O.S.	8	II	2 (E)

IMDG

UN- or ID number	UN proper shipping name	Labels	Packing group	EmS
2735	AMINES, LIQUID, CORROSIVE, N.O.S. or POLYAMINES, LIQUID, CORROSIVE, N.O.S.	8	II	F-A, S-B

"MARINE POLLUTANT"

No

IATA

UN- or ID number	UN proper shipping name	Labels	Packing group
------------------	-------------------------	--------	---------------

14.5. Environmental hazards

Not applicable

14.6. Special precautions for user

Not applicable

14.7. Transport in bulk according to Annex II of Marpol and the IBC Code

No data available

## SECTION 15: Regulatory information

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

Restrictions for application

People under the age of 18 shall not be exposed to this product.

Pregnant women and women breastfeeding must not be exposed to this product. The risk, and possible

technical precautions or design of the workplace needed to eliminate exposure, must be considered.

Demands for specific education

Use of this product requires dedicated training in work with polyurethane and epoxy products.

SEVESO - Categories / dangerous substances

Not applicable

Additional information

Tactile warning.

If this product is sold in retail, it must be delivered with child-resistant fastening.

Sources

The Management of Health and Safety at Work Regulations 1999

The Health and Safety at Work etc. Act 1974 Regulations 2013.

Regulation (EU) No 1357/2014 of 18 December 2014 on waste.

Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures (CLP).

Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH).

15.2. Chemical safety assessment

No

## SECTION 16: Other information

Full text of H-phrases as mentioned in section 3

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.

H332, Harmful if inhaled.

H411, Toxic to aquatic life with long lasting effects.

H412, Harmful to aquatic life with long lasting effects.

Abbreviations and acronyms

ADN = European Provisions concerning the International Carriage of Dangerous Goods by Inland Waterway

ADR = The European Agreement concerning the International Carriage of Dangerous Goods by Road

ATE = Acute Toxicity Estimate

BCF = Bioconcentration Factor

CAS = Chemical Abstracts Service

CE = Conformité Européenne

CLP = Classification, Labelling and Packaging Regulation [Regulation (EC) No. 1272/2008]

CSA = Chemical Safety Assessment

CSR = Chemical Safety Report

DMEL = Derived Minimal Effect Level

DNEL = Derived No Effect Level

EINECS = European Inventory of Existing Commercial chemical Substances

ES = Exposure Scenario

EUH statement = CLP-specific Hazard statement

EWC = European Waste Catalogue

GHS = Globally Harmonized System of Classification and Labelling of Chemicals

IARC = International Agency for Research on Cancer (IARC)

IATA = International Air Transport Association

IBC = Intermediate Bulk Container

IMDG = International Maritime Dangerous Goods

LogPow = logarithm of the octanol/water partition coefficient



MARPOL = International Convention for the Prevention of Pollution From Ships, 1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution)

OECD = Organisation for Economic Co-operation and Development

PBT = Persistent, Bioaccumulative and Toxic

PNEC = Predicted No Effect Concentration

RID = The Regulations concerning the International Carriage of Dangerous Goods by Rail

RRN = REACH Registration Number

SCL = A specific concentration limit.

SVHC = Substances of Very High Concern

STOT-RE = Specific Target Organ Toxicity - Repeated Exposure

STOT-SE = Specific Target Organ Toxicity - Single Exposure

TWA = Time weighted average

UN = United Nations

UVCB = Complex hydrocarbon substance

VOC = Volatile Organic Compound

vPvB = Very Persistent and Very Bioaccumulative

#### Additional information

The classification of the substance/mixture in regard of health hazards are in accordance with the calculation methods given by Regulation (EC) No. 1272/2008 (CLP)

The safety data sheet is validated by

Reyhane R. Kanafi

#### Other

A change (in proportion to the last essential change (first cipher in SDS version, see section 1)) is marked with a blue triangle.

The information in this safety data sheet applies only to this specific product (mentioned in section 1) and is not necessarily correct for use with other chemicals/products.

It is recommended to hand over this safety data sheet to the actual user of the product. Information in this safety data sheet cannot be used as a product specification.

Country-language: GB-en

## SAFETY DATA SHEET

# mira 3650 multipox pasta komp. A

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

#### 1.1. Product identifier

Trade name

**mira 3650 multipox pasta komp. A**

Unique formula identifier (UFI)

**FF3A-A08H-000N-XUUK**

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

Relevant identified uses of the substance or mixture

**tile adhesive / grout**

Uses advised against

**No special**

#### 1.3. Details of the supplier of the safety data sheet

Company and address

**mira byggeprodukter a/s**

Egegårdsvej 2

4621 Gadstrup

+45 46 19 19 46

[www.mira.eu.com](http://www.mira.eu.com)

Contact person

-

E-mail

[info@mira.eu.com](mailto:info@mira.eu.com)

SDS date

21-09-2021

SDS Version

5.0

Date of previous version

2021-09-17 (4.0)

#### 1.4. Emergency telephone number

Contact The National Poisons Information Service (dial 111, 24 h service).

See section 4 "First aid measures".

### SECTION 2: Hazards identification

#### 2.1. Classification of the substance or mixture

Skin Irrit. 2; H315, Causes skin irritation.

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

Eye Dam. 1; H318, Causes serious eye damage.

Aquatic Chronic 3; H412, Harmful to aquatic life with long lasting effects.

#### 2.2. Label elements

Hazard pictogram(s)



Signal word

**Danger**

Hazard statement(s)

- Causes skin irritation. (H315)
- May cause an allergic skin reaction. (H317)
- Causes serious eye damage. (H318)
- Harmful to aquatic life with long lasting effects. (H412)

Safety statement(s)

General

- If medical advice is needed, have product container or label at hand. (P101)
- Keep out of reach of children. (P102)

Prevention

- Avoid release to the environment. (P273)
- Wear protective gloves/protective clothing/eye protection/face protection. (P280)

Response

- IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. (P305+P351+P338)
- Immediately call a POISON CENTER / doctor. (P310)

Storage

-

Disposal

- Dispose of contents/container to an approved waste disposal plant. (P501)

▼ Hazardous substances

Dolomite

bis-[4-(2,3-epoxipropoxy)phenyl]propane

Formaldehyde, oligomeric reaction products with 1-chloro-2,3-epoxypropane and phenol oxirane, mono[(C12-14-alkyloxy)methyl] derivs.

Titanium dioxide

AMORPHOUS SILICA

benzyl alcohol

2.3. Other hazards

Additional labelling

EUH205, Contains epoxy constituents. May produce an allergic reaction.

Additional warnings

This mixture/product does not contain any substances considered to meet the criteria classifying them as PBT and/or vPvB.

**SECTION 3: Composition/information on ingredients**

3.2 Mixtures

Product/substance	Identifiers	% w/w	Classification	Note
bis-[4-(2,3-epoxipropoxy)phenyl]propane	CAS No.: 1675-54-3 EC No.: 216-823-5 REACH: 01-2119456619-26 Index No.: 603-073-00-2	10-15%	Skin Irrit. 2, H315 (SCL: 50.00 %) Skin Sens. 1, H317 Eye Irrit. 2, H319 (SCL: 5.00 %) Aquatic Chronic 2, H411	
Formaldehyde, oligomeric reaction products with 1-chloro-2,3-epoxypropane and phenol	CAS No.: 9003-36-5 EC No.: 500-006-8 REACH: 01-2119454392-40 Index No.:	3-8%	Skin Irrit. 2, H315 (SCL: 25.00 %) Skin Sens. 1, H317 Aquatic Chronic 2, H411	

oxirane, mono[(C12-14-alkyloxy)methyl] derivs.	CAS No.: 68609-97-2 EC No.: 271-846-8 REACH: 01-2119485289-22 Index No.: 603-103-00-4	2-5%	Skin Irrit. 2, H315 Skin Sens. 1, H317	
Titanium dioxide	CAS No.: 13463-67-7 EC No.: 236-675-5 REACH: Index No.:	1-3%		
benzyl alcohol	CAS No.: 100-51-6 EC No.: 202-859-9 REACH: Index No.: 603-057-00-5	1-3%	Acute Tox. 4, H302 Acute Tox. 4, H332 Eye Irrit. 2, H319	[9]

-----

See full text of H-phrases in section 16. Occupational exposure limits are listed in section 8, if these are available.

Other information

## SECTION 4: First aid measures

### 4.1. Description of first aid measures

#### General information

In the case of accident: Contact a doctor or casualty department – take the label or this safety data sheet. Contact a doctor if in doubt about the injured person's condition or if the symptoms persist. Never give an unconscious person water or other drink.

#### Inhalation

Upon breathing difficulties or irritation of the respiratory tract: Bring the person into fresh air and stay with him/her.

#### Skin contact

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

Remove contaminated clothing and shoes. Ensure to wash exposed skin thoroughly with water and soap. DO NOT use solvents or thinners.

If skin irritation occurs: Get medical advice/attention.

#### Eye contact

Upon irritation of the eye: Remove contact lenses. Flush eyes with plenty of water or salt water (20-30°C) for at least 15 minutes and continue until irritation stops. Make sure you flush under the upper and lower eyelids. Seek medical assistance immediately and continue flushing during transport.

#### Ingestion

Provide plenty of water for the person to drink and stay with him/her. In case of malaise, seek medical advice immediately and bring the safety data sheet or label from the product. Do not induce vomiting, unless recommended by the doctor. Have the victim lean forward with head down to avoid inhalation of- or choking on vomited material.

#### Burns

Not applicable

### 4.2. Most important symptoms and effects, both acute and delayed

**Sensitisation:** This product contains substances, which may trigger allergic reaction upon dermal contact.

Manifestation of allergic reactions typically takes place within 12-72 hours after exposure.

**Irritation effects:** This product contains substances, which may cause irritation upon exposure to skin, eyes or

lungs. Exposure may result in an increased absorption potential of other hazardous substances at the area of exposure.

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

IF exposed or concerned:

Get immediate medical advice/attention.

Information to medics

Bring this safety data sheet or the label from this product.

## SECTION 5: Firefighting measures

### 5.1. Extinguishing media

Suitable extinguishing media: Alcohol-resistant foam, carbon dioxide, powder, water mist.

Unsuitable extinguishing media: Waterjets should not be used, since they can spread the fire.

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

Fire will result in dense smoke. Exposure to combustion products may harm your health. Closed containers, which are exposed to fire, should be cooled with water. Do not allow fire-extinguishing water to enter the sewage system and nearby surface waters.

If the product is exposed to high temperatures, e.g. in the event of fire, dangerous decomposition compounds are produced. These are:

Carbon oxides (CO / CO<sub>2</sub>).

### 5.3. Advice for firefighters

Wear self-contained breathing apparatus and protective clothing to prevent contact. Upon direct exposure contact The National Poisons Information Service (dial 111, 24 h service) in order to obtain further advice.

## SECTION 6: Accidental release measures

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

Avoid direct contact with spilled substances.

### 6.2. Environmental precautions

Avoid discharge to lakes, streams, sewers, etc. In the event of leakage to the surroundings, contact local environmental authorities.

### 6.3. Methods and material for containment and cleaning up

Use sand, earth, vermiculite, diatomaceous earth to contain and collect non-combustible absorbent materials and place in container for disposal, according to local regulations.

To the extent possible cleaning is performed with normal cleaning agents. Avoid use of solvents.

### 6.4. Reference to other sections

See section 13 on "Disposal considerations" in regard of handling of waste.

See section 8 "Exposure controls/personal protection" for protective measures.

## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

It is recommended to install waste collection trays in order to prevent emissions to the waste water system and surrounding environment.

Avoid direct contact with the product.

Smoking, drinking and consumption of food is not allowed in the work area.

See section 8 "Exposure controls/personal protection" for information on personal protection.

### 7.2. Conditions for safe storage, including any incompatibilities

Store in tightly closed containers and store protected from moisture and light. Containers should be dated when opened and tested periodically for the presence of peroxides. Do not exceed storage time limits.

Containers that have been opened must be carefully resealed and kept upright to prevent leakage.

Recommended storage material

Always store in containers of the same material as the original container.

Storage temperature

Store in a closed original container in a dry and well-ventilated place.

Incompatible materials

Strong acids, strong bases, strong oxidizing agents, and strong reducing agents.

7.3. Specific end use(s)

This product should only be used for applications quoted in section 1.2

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

—

Titanium dioxide

Long term exposure limit (8 hours) (mg/m<sup>3</sup>): 10(inhalable)/4(respirable)

The Control of Substances Hazardous to Health Regulations 2002. SI 2002/2677 The Stationery Office 2002.  
EH40/2005 Workplace exposure limits (Fourth Edition 2020)

#### DNEL

<b>Product/substance</b>	bis-[4-(2,3-epoxipropoxy)phenyl]propane
<b>DNEL</b>	12,25 mg/m <sup>3</sup>
<b>Route of exposure</b>	Inhalation
<b>Duration</b>	Short term – Systemic effects
<b>Product/substance</b>	Formaldehyde, oligomeric reaction products with 1-chloro-2,3-epoxypropane and phenol
<b>DNEL</b>	29,39 mg/m <sup>3</sup>
<b>Route of exposure</b>	Inhalation
<b>Duration</b>	Long term – Systemic effects
<b>Product/substance</b>	oxirane, mono[(C12-14-alkyloxy)methyl] derivs.
<b>DNEL</b>	3,6 mg/m <sup>3</sup>
<b>Route of exposure</b>	Inhalation
<b>Duration</b>	Long term – Systemic effects
<b>Product/substance</b>	benzyl alcohol
<b>DNEL</b>	450 mg/m <sup>3</sup>
<b>Route of exposure</b>	Inhalation
<b>Duration</b>	Short term – Systemic effects - Workers

#### PNEC

<b>Product/substance</b>	Formaldehyde, oligomeric reaction products with 1-chloro-2,3-epoxypropane and phenol
<b>PNEC</b>	10 mg/l
<b>Route of exposure</b>	Sewage treatment plant
<b>Duration of Exposure</b>	
<b>Product/substance</b>	oxirane, mono[(C12-14-alkyloxy)methyl] derivs.
<b>PNEC</b>	30,72 mg/kg

<b>Route of exposure</b>	Marine water sediment
<b>Duration of Exposure</b>	
<b>Product/substance</b>	oxirane, mono[(C12-14-alkyloxy)methyl] derivs.
<b>PNEC</b>	307,16 mg/kg
<b>Route of exposure</b>	Freshwater sediment
<b>Duration of Exposure</b>	

## 8.2. Exposure controls

Compliance with the given occupational exposure limits values should be controlled on a regular basis.

### General recommendations

Smoking, drinking and consumption of food is not allowed in the work area.

### Exposure scenarios

There are no exposure scenarios implemented for this product.

### Exposure limits

Professional users are subjected to the legally set maximum concentrations for occupational exposure. See occupational hygiene limit values above.

### Appropriate technical measures

The formation of vapours must be kept at a minimum and below current limit values (see above). Installation of a local exhaust system if normal air flow in the work room is not sufficient is recommended. Ensure emergency eyewash and -showers are clearly marked.

### Hygiene measures

Take off contaminated clothing and wash it before reuse.

### Measures to avoid environmental exposure

No specific requirements

## Individual protection measures, such as personal protective equipment

### Generally

Wash contaminated clothing before reuse.

Use only CE marked protective equipment.

### Respiratory Equipment

Type	Class	Colour	Standards
In case of insufficient ventilation, wear respiratory protection. Filter type: A / AX. Respiratory protection must comply with one of the following standards: EN 136/140/145			

## Skin protection

Recommended	Type/Category	Standards
Remove soiled clothing and wash skin thoroughly with soap and water when work is complete.		

## Hand protection

Material	Glove thickness (mm)	Breakthrough time (min.)	Standards
Nitrile	-	-	EN374-2



### Eye protection

Type	Standards
Wear safety goggles if there is a risk of splashes in the eyes. Eye protection must comply with EN 166.	EN 166



## SECTION 9: Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

Form

Paste

Colour

Various colours

Odour

Testing not relevant or not possible due to nature of the product.

Odour threshold (ppm)

Testing not relevant or not possible due to nature of the product.

pH

Testing not relevant or not possible due to nature of the product.

Density (g/cm<sup>3</sup>)

Testing not relevant or not possible due to nature of the product.

Viscosity

Testing not relevant or not possible due to nature of the product.

Phase changes

Melting point (°C)

Testing not relevant or not possible due to nature of the product.

Boiling point (°C)

Testing not relevant or not possible due to nature of the product.

Vapour pressure

Testing not relevant or not possible due to nature of the product.

Vapour density

Testing not relevant or not possible due to nature of the product.

Decomposition temperature (°C)

Testing not relevant or not possible due to nature of the product.

Evaporation rate (n-butylacetate = 100)

Data on fire and explosion hazards

Flash point (°C)

Testing not relevant or not possible due to nature of the product.

Ignition (°C)

Testing not relevant or not possible due to nature of the product.

Auto flammability (°C)

Testing not relevant or not possible due to nature of the product.

Explosion limits (% v/v)

Testing not relevant or not possible due to nature of the product.

Explosive properties



Testing not relevant or not possible due to nature of the product.

Oxidizing properties

Testing not relevant or not possible due to nature of the product.

Solubility

Solubility in water

Testing not relevant or not possible due to nature of the product.

n-octanol/water coefficient

Testing not relevant or not possible due to nature of the product.

Solubility in fat (g/L)

Testing not relevant or not possible due to nature of the product.

9.2. Other information

## SECTION 10: Stability and reactivity

10.1. Reactivity

No data available

10.2. Chemical stability

The product is stable under the conditions, noted in section 7 "Handling and storage".

10.3. Possibility of hazardous reactions

No special

10.4. Conditions to avoid

No special

10.5. Incompatible materials

Strong acids, strong bases, strong oxidizing agents, and strong reducing agents.

10.6. Hazardous decomposition products

The product is not degraded when used as specified in section 1.

## SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity

<b>Product/substance</b>	bis-[4-(2,3-epoxipropoxi)phenyl]propane
<b>Test method</b>	
<b>Species</b>	Rat
<b>Route of exposure</b>	
<b>Test</b>	LD50
<b>Result</b>	>2000 mg/kg
<b>Other information</b>	
<b>Product/substance</b>	Formaldehyde, oligomeric reaction products with 1-chloro-2,3-epoxypropane and phenol
<b>Test method</b>	
<b>Species</b>	Rat
<b>Route of exposure</b>	Dermal
<b>Test</b>	LD50
<b>Result</b>	>2000 mg/kg mg/L
<b>Other information</b>	

<b>Product/substance</b>	oxirane, mono[(C12-14-alkyloxy)methyl] derivs.
<b>Test method</b>	
<b>Species</b>	Rabbit
<b>Route of exposure</b>	Dermal
<b>Test</b>	
<b>Result</b>	>4000 mg/kg, 4,5 ml/kg mg/kg
<b>Other information</b>	

Skin corrosion/irritation

Causes skin irritation.

Serious eye damage/irritation

Causes serious eye damage.

Respiratory sensitisation

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

Skin sensitisation

May cause an allergic skin reaction.

Germ cell mutagenicity

<b>Product/substance</b>	bis-[4-(2,3-epoxipropoxi)phenyl]propane
<b>Test method</b>	OECD 476
<b>Species</b>	
<b>Conclusion</b>	Adverse effect observed
<b>Other information</b>	
<b>Product/substance</b>	bis-[4-(2,3-epoxipropoxi)phenyl]propane
<b>Test method</b>	OECD 471
<b>Species</b>	
<b>Conclusion</b>	Adverse effect observed
<b>Other information</b>	
<b>Product/substance</b>	Formaldehyde, oligomeric reaction products with 1-chloro-2,3-epoxypropane and phenol
<b>Test method</b>	OECD 471
<b>Species</b>	
<b>Conclusion</b>	Adverse effect observed
<b>Other information</b>	
<b>Product/substance</b>	Formaldehyde, oligomeric reaction products with 1-chloro-2,3-epoxypropane and phenol
<b>Test method</b>	OECD 476
<b>Species</b>	
<b>Conclusion</b>	Adverse effect observed
<b>Other information</b>	
<b>Product/substance</b>	oxirane, mono[(C12-14-alkyloxy)methyl] derivs.

<b>Test method</b>	OECD 471
<b>Species</b>	
<b>Conclusion</b>	Adverse effect observed
<b>Other information</b>	

#### 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.

#### Long term effects

Tissue-damaging effects: This product contains substances with skin corrosive properties. Inhaled vapour or aerosols may produce adverse effects to lungs, -irritations and burns in the respiratory organs -as well as coughing. Dermal contact and contact with the eye cause irreversible effects.

#### Other information

bis-[4-(2,3-epoxipropoxy)phenyl]propane has been classified by IARC as a group 3 carcinogen.

Titanium dioxide has been classified by IARC as a group 2B carcinogen.

## SECTION 12: Ecological information

### 12.1. Toxicity

<b>Product/substance</b>	bis-[4-(2,3-epoxipropoxy)phenyl]propane
<b>Test method</b>	
<b>Species</b>	Algae
<b>Compartment</b>	
<b>Duration</b>	72 hours
<b>Test</b>	EC50
<b>Result</b>	9,4 mg/L
<b>Other information</b>	
<b>Product/substance</b>	bis-[4-(2,3-epoxipropoxy)phenyl]propane
<b>Test method</b>	
<b>Species</b>	Fish
<b>Compartment</b>	
<b>Duration</b>	96 hours
<b>Test</b>	LC50
<b>Result</b>	1,5 mg/L
<b>Other information</b>	

<b>Product/substance</b>	bis-[4-(2,3-epoxipropoxi)phenyl]propane
<b>Test method</b>	
<b>Species</b>	Daphnia
<b>Compartment</b>	
<b>Duration</b>	48 hours
<b>Test</b>	EC50
<b>Result</b>	2,7 mg/L
<b>Other information</b>	
<b>Product/substance</b>	Formaldehyde, oligomeric reaction products with 1-chloro-2,3-epoxypropane and phenol
<b>Test method</b>	
<b>Species</b>	Algae
<b>Compartment</b>	
<b>Duration</b>	72 hours
<b>Test</b>	EC50
<b>Result</b>	1,8 mg/L
<b>Other information</b>	
<b>Product/substance</b>	Formaldehyde, oligomeric reaction products with 1-chloro-2,3-epoxypropane and phenol
<b>Test method</b>	
<b>Species</b>	Daphnia
<b>Compartment</b>	
<b>Duration</b>	48 hours
<b>Test</b>	EC50
<b>Result</b>	2,55 mg/L
<b>Other information</b>	
<b>Product/substance</b>	Formaldehyde, oligomeric reaction products with 1-chloro-2,3-epoxypropane and phenol
<b>Test method</b>	
<b>Species</b>	Fish
<b>Compartment</b>	
<b>Duration</b>	96 hours
<b>Test</b>	LC50
<b>Result</b>	2,54 mg/L
<b>Other information</b>	
<b>Product/substance</b>	oxirane, mono[(C12-14-alkyloxy)methyl] derivs.
<b>Test method</b>	
<b>Species</b>	Daphnia

<b>Compartment</b>	
<b>Duration</b>	48 hours
<b>Test</b>	
<b>Result</b>	7,2 mg/L
<b>Other information</b>	
<b>Product/substance</b>	oxirane, mono[[C12-14-alkyloxy)methyl] derivs.
<b>Test method</b>	
<b>Species</b>	Fish
<b>Compartment</b>	
<b>Duration</b>	96 hours
<b>Test</b>	
<b>Result</b>	>100 mg/L
<b>Other information</b>	
<b>Product/substance</b>	oxirane, mono[[C12-14-alkyloxy)methyl] derivs.
<b>Test method</b>	
<b>Species</b>	Algae
<b>Compartment</b>	
<b>Duration</b>	72 hours
<b>Test</b>	IC50
<b>Result</b>	843,75 mg/L
<b>Other information</b>	
<b>Product/substance</b>	benzyl alcohol
<b>Test method</b>	
<b>Species</b>	Fish
<b>Compartment</b>	
<b>Duration</b>	96 hours
<b>Test</b>	LC50
<b>Result</b>	460.00 mg/L
<b>Other information</b>	

## 12.2. Persistence and degradability

<b>Product/substance</b>	Formaldehyde, oligomeric reaction products with 1-chloro-2,3-epoxypropane and phenol
<b>Biodegradable</b>	No
<b>Test method</b>	
<b>Result</b>	ikke bionedbrydelig

<b>Product/substance</b>	benzyl alcohol
<b>Biodegradable</b>	Yes
<b>Test method</b>	OECD 301 A
<b>Result</b>	95-97 %

### 12.3. Bioaccumulative potential

<b>Product/substance</b>	bis-[4-(2,3-epoxipropoxi)phenyl]propane
<b>Test method</b>	
<b>Potential bioaccumulation</b>	No data available
<b>LogPow</b>	3,242 (25°C)
<b>BCF</b>	31
<b>Other information</b>	
<b>Product/substance</b>	Formaldehyde, oligomeric reaction products with 1-chloro-2,3-epoxypropane and phenol
<b>Test method</b>	
<b>Potential bioaccumulation</b>	No
<b>LogPow</b>	2,7 - 3,6
<b>BCF</b>	150
<b>Other information</b>	
<b>Product/substance</b>	benzyl alcohol
<b>Test method</b>	
<b>Potential bioaccumulation</b>	No
<b>LogPow</b>	1.1
<b>BCF</b>	1
<b>Other information</b>	

### 12.4. Mobility in soil

bis-[4-(2,3-epoxipropoxi)phenyl]propane

LogKoc = 445.00, Low mobility potential.

Formaldehyde, oligomeric reaction products with 1-chloro-2,3-epoxypropane and phenol

LogKoc = 4460.00, Low mobility potential.

benzyl alcohol

LogKoc = 5.00, Low mobility potential.

### 12.5. Results of PBT and vPvB assessment

This mixture/product does not contain any substances considered to meet the criteria classifying them as PBT and/or vPvB.

### 12.6. Other adverse effects

This product contains substances that are toxic to the environment. May result in adverse effects to aquatic organisms.

This product contains substances, which may cause adverse long-term effects to the aquatic environment.

## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

Product is covered by the regulations on hazardous waste.

HP 13 – Sensitising

Avoid discharge to lakes, streams, sewers, etc.

Dispose of contents/container to an approved waste disposal plant.

Regulation (EU) No 1357/2014 of 18 December 2014 on waste.

#### EWC code

08 04 09*	Waste adhesives and sealants containing organic solvents or other dangerous substances
08 04 15*	Aqueous liquid waste containing adhesives or sealants containing organic solvents or other dangerous substances
17 09 03*	Other construction and demolition wastes (including mixed wastes) containing dangerous substances

#### Specific labelling

Not applicable

#### Contaminated packing

Packaging containing residues of the product must be disposed of similarly to the product.

## SECTION 14: Transport information

### 14.1 - 14.4

This product is within scope of the regulations of transport of dangerous goods.

These substances when carried in single or combination packaging's containing a net quantity per single or inner packaging of 5 L or less for liquids or having a net mass per single or inner packaging of 5 kg or less for solids, are not subject to any other provisions of ADR/IMDG/IATA provided the packaging's meet the general provisions of 4.1.1.1, 4.1.1.2, 4.1.1.4 - 4.1.1.8 (ADR, IMDG) / 5.0.2.4.1, 5.0.2.6.1.1, 5.0.2.8 (IATA)

#### ADR/RID

UN- or ID number	UN proper shipping name	Labels	Packing group	Tunnel restriction code
3082	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.(liquid epoxy harpics, aliphatic glycidyl etherlyc)	9	III	3 (-)

#### IMDG

UN- or ID number	UN proper shipping name	Labels	Packing group	EmS
3082	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.(liquid epoxy harpics, aliphatic glycidyl etherlyc)	9	III	F-A, S-F

"MARINE POLLUTANT"

No

#### IATA

Not applicable

14.5. Environmental hazards

Not applicable

14.6. Special precautions for user

Not applicable

14.7. Transport in bulk according to Annex II of Marpol and the IBC Code

No data available

## SECTION 15: Regulatory information

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

Restrictions for application

People under the age of 18 shall not be exposed to this product.

Pregnant women and women breastfeeding must not be exposed to this product. The risk, and possible technical precautions or design of the workplace needed to eliminate exposure, must be considered.

Demands for specific education

Use of this product requires dedicated training in work with polyurethane and epoxy products.

SEVESO - Categories / dangerous substances

Not applicable

Additional information

Tactile warning.

If this product is sold in retail, it must be delivered with child-resistant fastening.

Sources

The Management of Health and Safety at Work Regulations 1999

The Health and Safety at Work etc. Act 1974 Regulations 2013.

Regulation (EU) No 1357/2014 of 18 December 2014 on waste.

Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures (CLP).

Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH).

15.2. Chemical safety assessment

No

## SECTION 16: Other information

Full text of H-phrases as mentioned in section 3

H302, Harmful if swallowed.

H315, Causes skin irritation.

H317, May cause an allergic skin reaction.

H319, Causes serious eye irritation.

H332, Harmful if inhaled.

H411, Toxic to aquatic life with long lasting effects.

Abbreviations and acronyms

ADN = European Provisions concerning the International Carriage of Dangerous Goods by Inland Waterway

ADR = The European Agreement concerning the International Carriage of Dangerous Goods by Road

ATE = Acute Toxicity Estimate

BCF = Bioconcentration Factor

CAS = Chemical Abstracts Service

CE = Conformité Européenne

CLP = Classification, Labelling and Packaging Regulation [Regulation (EC) No. 1272/2008]

CSA = Chemical Safety Assessment

CSR = Chemical Safety Report

DMEL = Derived Minimal Effect Level

DNEL = Derived No Effect Level

EINECS = European Inventory of Existing Commercial chemical Substances



ES = Exposure Scenario  
EUH statement = CLP-specific Hazard statement  
EWC = European Waste Catalogue  
GHS = Globally Harmonized System of Classification and Labelling of Chemicals  
IARC = International Agency for Research on Cancer (IARC)  
IATA = International Air Transport Association  
IBC = Intermediate Bulk Container  
IMDG = International Maritime Dangerous Goods  
LogPow = logarithm of the octanol/water partition coefficient  
MARPOL = International Convention for the Prevention of Pollution From Ships, 1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution)  
OECD = Organisation for Economic Co-operation and Development  
PBT = Persistent, Bioaccumulative and Toxic  
PNEC = Predicted No Effect Concentration  
RID = The Regulations concerning the International Carriage of Dangerous Goods by Rail  
RRN = REACH Registration Number  
SCL = A specific concentration limit.  
SVHC = Substances of Very High Concern  
STOT-RE = Specific Target Organ Toxicity - Repeated Exposure  
STOT-SE = Specific Target Organ Toxicity - Single Exposure  
TWA = Time weighted average  
UN = United Nations  
UVCB = Complex hydrocarbon substance  
VOC = Volatile Organic Compound  
vPvB = Very Persistent and Very Bioaccumulative

#### Additional information

The classification of the substance/mixture in regard of health hazards are in accordance with the calculation methods given by Regulation (EC) No. 1272/2008 (CLP)

The classification of the substance/mixture in regard of skin corrosion and serious eye damage is based on the pH-criterion given by Regulation (EC) No. 1272/2008 (CLP)

The safety data sheet is validated by

Reyhane R. Kanafi

#### Other

A change (in proportion to the last essential change (first cipher in SDS version, see section 1)) is marked with a blue triangle.

The information in this safety data sheet applies only to this specific product (mentioned in section 1) and is not necessarily correct for use with other chemicals/products.

It is recommended to hand over this safety data sheet to the actual user of the product. Information in this safety data sheet cannot be used as a product specification.

Country-language: GB-en

## SAFETY DATA SHEET

**mira 3650 multipox hærder komp.B**

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

## 1.1. Product identifier

Trade name

**mira 3650 multipox hærder komp.B**

Unique formula identifier (UFI)

**TJ3A-T0XW-A005-K6EN**

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

Relevant identified uses of the substance or mixture

**No special**

Uses advised against

**No special**

## 1.3. Details of the supplier of the safety data sheet

Company and address

**mira byggeprodukter a/s**

Egegårdsvej 2

4621 Gadstrup

+45 46 19 19 46

[www.mira.eu.com](http://www.mira.eu.com)

Contact person

-

E-mail

[info@mira.eu.com](mailto:info@mira.eu.com)

SDS date

21-09-2021

SDS Version

5.0

Date of previous version

2021-09-16 (4.0)

## 1.4. Emergency telephone number

Contact The National Poisons Information Service (dial 111, 24 h service).

See section 4 "First aid measures".

## SECTION 2: Hazards identification

## 2.1. Classification of the substance or mixture

Acute Tox. 4; H302, Harmful if swallowed.

Skin Corr. 1B; H314, Causes severe skin burns and eye damage.

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

Eye Dam. 1; H318, Causes serious eye damage.

Acute Tox. 4; H332, Harmful if inhaled.

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

## 2.2. Label elements

Hazard pictogram(s)



Signal word

**Danger**

Hazard statement(s)

- Harmful if swallowed or if inhaled. (H302+H332)
- Toxic to aquatic life with long lasting effects. (H411)
- Causes severe skin burns and eye damage. (H314)
- May cause an allergic skin reaction. (H317)

Safety statement(s)

General

- If medical advice is needed, have product container or label at hand. (P101)
- Keep out of reach of children. (P102)

Prevention

- Do not breathe vapour. (P260)
- Avoid release to the environment. (P273)
- Wear protective gloves/protective clothing/eye protection/face protection. (P280)

Response

- IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. (P301+P330+P331)
- IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. (P305+P351+P338)
- Immediately call a POISON CENTER / doctor. (P310)

Storage

-

Disposal

- Dispose of contents/container to an approved waste disposal plant. (P501)

▼ Hazardous substances

- 3-aminomethyl-3,5,5-trimethylcyclohexylamine
- benzyl alcohol
- 4,4'-Isopropylidenediphenol, oligomeric reaction products with 1-chloro-2,3-epoxypropane, reaction products with 3-aminomethyl-3,5,5-trimethylcyclohexylamine
- Phenol, styrenated
- m-phenylenebis(methylamine)
- 2,2,4(or 2,4,4)-trimethylhexane-1,6-diamine

2.3. Other hazards

Additional labelling

Not applicable

Additional warnings

This mixture/product does not contain any substances considered to meet the criteria classifying them as PBT and/or vPvB.

## SECTION 3: Composition/information on ingredients

### 3.2 Mixtures

Product/substance	Identifiers	% w/w	Classification	Note
3-aminomethyl-3,5,5-trimethylcyclohexylamine	CAS No.: 2855-13-2	25-40%	Acute Tox. 4, H302	
	EC No.: 220-666-8		Acute Tox. 4, H312	
	REACH: 01-2119514687-32		Skin Corr. 1B, H314	
	Index No.: 612-067-00-9		Skin Sens. 1, H317 Eye Dam. 1, H318 Aquatic Chronic 3, H412	

benzyl alcohol	CAS No.: 100-51-6 EC No.: 202-859-9 REACH: Index No.: 603-057-00-5	25-40%	Acute Tox. 4, H302 Acute Tox. 4, H332 Eye Irrit. 2, H319	[9]
4,4'-Isopropylidenediphenol, oligomeric reaction products with 1-chloro-2,3-epoxypropane, reaction products with 3-aminomethyl-3,5,5-trimethylcyclohexylamine	CAS No.: 38294-64-3 EC No.: 500-101-4 REACH: 01-2119965165-33 Index No.:	15-25%	Skin Corr. 1B, H314 Skin Sens. 1, H317 Eye Dam. 1, H318 Aquatic Chronic 3, H412	
Phenol, styrenated	CAS No.: 61788-44-1 EC No.: 262-975-0 REACH: 01-2119980970-27 Index No.:	2-8%	Skin Irrit. 2, H315 Skin Sens. 1, H317 Aquatic Chronic 2, H411	
m-phenylenebis(methylamine)	CAS No.: 1477-55-0 EC No.: 216-032-5 REACH: 01-2119480150-50 Index No.:	1-5%	Acute Tox. 4, H302 Skin Corr. 1B, H314 Skin Sens. 1B, H317 Eye Dam. 1, H318 Acute Tox. 4, H332 Aquatic Chronic 3, H412 EUH071	
2,2,4(or 2,4,4)-trimethylhexane-1,6-diamine	CAS No.: 25513-64-8 EC No.: 247-063-2 REACH: Index No.:	1-3%	Acute Tox. 4, H302 Skin Sens. 1A, H317 Eye Dam. 1, H318 Skin Corr. 1A, H314	

-----

See full text of H-phrases in section 16. Occupational exposure limits are listed in section 8, if these are available.

Other information

## SECTION 4: First aid measures

### 4.1. Description of first aid measures

#### General information

In the case of accident: Contact a doctor or casualty department – take the label or this safety data sheet. Contact a doctor if in doubt about the injured person's condition or if the symptoms persist. Never give an unconscious person water or other drink.

#### Inhalation

Upon breathing difficulties or irritation of the respiratory tract: Bring the injured person into fresh air. Make sure the injured person is continuously monitored. Prevent shock by keeping the injured person warm and calm. If breathing ceases, give mouth-to-mouth resuscitation. If unconscious, roll the injured person into recovery position. Call an ambulance.

#### Skin contact

Remove contaminated clothing and shoes immediately. Ensure to wash exposed skin thoroughly with water and soap. Skin cleanser can be used. DO NOT use solvents or thinners.

If skin irritation occurs: Get medical advice/attention.

#### Eye contact

Upon irritation of the eye: Remove contact lenses. Flush eyes with plenty of water or salt water (20-30°C) for at least 15 minutes and continue until irritation stops. Make sure you flush under the upper and lower eyelids. Seek medical assistance immediately and continue flushing during transport.

#### Ingestion

In the case of ingestion, contact a doctor immediately. If the person is conscious, give them water. DO NOT try to induce vomiting, unless this is recommended by a doctor. Hold head facing down to prevent vomit returning mouth and throat. Prevent shock by keeping the injured person warm and calm. Initiate immediate resuscitation if breathing stops. If unconscious, roll the injured person into recovery position. Call an ambulance.

#### Burns

Not applicable

#### 4.2. Most important symptoms and effects, both acute and delayed

Tissue-damaging effects: This product contains substances with skin corrosive properties. Inhaled vapour or aerosols may produce adverse effects to lungs, -irritations and burns in the respiratory organs -as well as coughing. Dermal contact and contact with the eye cause irreversible effects.

Sensitisation: This product contains substances, which may trigger allergic reaction upon dermal contact.

Manifestation of allergic reactions typically takes place within 12-72 hours after exposure.

Irritation effects: This product contains substances, which may cause irritation upon exposure to skin, eyes or lungs. Exposure may result in an increased absorption potential of other hazardous substances at the area of exposure.

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

IF exposed or concerned:

Get immediate medical advice/attention.

#### Information to medics

Bring this safety data sheet or the label from this product.

## SECTION 5: Firefighting measures

#### 5.1. Extinguishing media

Suitable extinguishing media: Alcohol-resistant foam, carbon dioxide, powder, water mist.

Unsuitable extinguishing media: Waterjets should not be used, since they can spread the fire.

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

Fire will result in dense smoke. Exposure to combustion products may harm your health. Closed containers, which are exposed to fire, should be cooled with water. Do not allow fire-extinguishing water to enter the sewage system and nearby surface waters.

If the product is exposed to high temperatures, e.g. in the event of fire, dangerous decomposition compounds are produced. These are:

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

Carbon oxides (CO / CO<sub>2</sub>).

#### 5.3. Advice for firefighters

Wear self-contained breathing apparatus and protective clothing to prevent contact. Upon direct exposure contact The National Poisons Information Service (dial 111, 24 h service) in order to obtain further advice.

## SECTION 6: Accidental release measures

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

Avoid direct contact with spilled substances.

Avoid inhalation of vapours from spilled material.

#### 6.2. Environmental precautions

Avoid discharge to lakes, streams, sewers, etc. In the event of leakage to the surroundings, contact local environmental authorities.

#### 6.3. Methods and material for containment and cleaning up

Use sand, earth, vermiculite, diatomaceous earth to contain and collect non-combustible absorbent materials and place in container for disposal, according to local regulations.

To the extent possible cleaning is performed with normal cleaning agents. Avoid use of solvents.

#### 6.4. Reference to other sections

See section 13 on "Disposal considerations" in regard of handling of waste.

See section 8 "Exposure controls/personal protection" for protective measures.

## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

It is recommended to install waste collection trays in order to prevent emissions to the waste water system and surrounding environment.

The product should be tested for peroxides before distillation or evaporation and tested for peroxide formation or discarded after 1 year.

Peroxide formation may be present anywhere in the container, including the sides, bottom, exterior and threaded cap. Peroxide formation in ppm concentrations may not be visually observable and must be identified through the use of appropriate testing procedures. If any of the following conditions exist, the material may be explosively unstable and will require stabilization prior to use:

1. Material appears to be degraded and or contaminated.
2. Material appears to be discolored.
3. Deterioration or distortion of storage container.
4. Thermal shock (sunlight).
5. Age of material exceeds recommended storage time.

Avoid direct contact with the product.

Smoking, drinking and consumption of food is not allowed in the work area.

See section 8 "Exposure controls/personal protection" for information on personal protection.

### 7.2. Conditions for safe storage, including any incompatibilities

Store in tightly closed containers and store protected from moisture and light. Containers should be dated when opened and tested periodically for the presence of peroxides. Do not exceed storage time limits.

Containers that have been opened must be carefully resealed and kept upright to prevent leakage.

#### Recommended storage material

Always store in containers of the same material as the original container.

#### Storage temperature

Store in a closed original container in a dry and well-ventilated place.

#### Incompatible materials

Strong acids, strong bases, strong oxidizing agents, and strong reducing agents.

### 7.3. Specific end use(s)

This product should only be used for applications quoted in section 1.2

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

No substances are listed in the national list of substances with an occupational exposure limit.

#### DNEL

<b>Product/substance</b>	3-aminomethyl-3,5,5-trimethylcyclohexylamine
<b>DNEL</b>	20,1 mg/m <sup>3</sup>
<b>Route of exposure</b>	Inhalation
<b>Duration</b>	Short term – Systemic effects
<b>Product/substance</b>	3-aminomethyl-3,5,5-trimethylcyclohexylamine
<b>DNEL</b>	0,526 mg/kg legemsvægt/dag
<b>Route of exposure</b>	Oral

According to EC-Regulation 1907/2006 (REACH), annex II, as implemented by EC-Regulation 2015/830

<b>Duration</b>	Long term – Systemic effects
<b>Product/substance</b>	benzyl alcohol
<b>DNEL</b>	450 mg/m <sup>3</sup>
<b>Route of exposure</b>	Inhalation
<b>Duration</b>	Short term – Systemic effects - Workers
<b>Product/substance</b>	m-phenylenebis(methylamine)
<b>DNEL</b>	0,2 mg/m <sup>3</sup>
<b>Route of exposure</b>	Inhalation
<b>Duration</b>	Long term – Local effects
<b>Product/substance</b>	m-phenylenebis(methylamine)
<b>DNEL</b>	0,33 mg/kg
<b>Route of exposure</b>	Dermal
<b>Duration</b>	Long term – Systemic effects
<b>Product/substance</b>	m-phenylenebis(methylamine)
<b>DNEL</b>	1,2 mg/m <sup>3</sup>
<b>Route of exposure</b>	Inhalation
<b>Duration</b>	Long term – Systemic effects

PNEC

<b>Product/substance</b>	3-aminomethyl-3,5,5-trimethylcyclohexylamine
<b>PNEC</b>	0,06 mg/l
<b>Route of exposure</b>	Freshwater
<b>Duration of Exposure</b>	
<b>Product/substance</b>	3-aminomethyl-3,5,5-trimethylcyclohexylamine
<b>PNEC</b>	0,006 mg/l
<b>Route of exposure</b>	Marine water
<b>Duration of Exposure</b>	
<b>Product/substance</b>	3-aminomethyl-3,5,5-trimethylcyclohexylamine
<b>PNEC</b>	5,784 mg/kg
<b>Route of exposure</b>	Freshwater sediment
<b>Duration of Exposure</b>	
<b>Product/substance</b>	3-aminomethyl-3,5,5-trimethylcyclohexylamine
<b>PNEC</b>	0578 mg/kg
<b>Route of exposure</b>	Marine water sediment
<b>Duration of Exposure</b>	

According to EC-Regulation 1907/2006 (REACH), annex II, as implemented by EC-Regulation 2015/830

<b>Product/substance</b>	3-aminomethyl-3,5,5-trimethylcyclohexylamine
<b>PNEC</b>	1,121 mg/kg
<b>Route of exposure</b>	Soil
<b>Duration of Exposure</b>	
<b>Product/substance</b>	3-aminomethyl-3,5,5-trimethylcyclohexylamine
<b>PNEC</b>	3,18 mg/l
<b>Route of exposure</b>	Sewage treatment plant
<b>Duration of Exposure</b>	
<b>Product/substance</b>	m-phenylenebis(methylamine)
<b>PNEC</b>	0,094 mg/l
<b>Route of exposure</b>	Freshwater
<b>Duration of Exposure</b>	
<b>Product/substance</b>	m-phenylenebis(methylamine)
<b>PNEC</b>	0,009 mg/l
<b>Route of exposure</b>	Marine water
<b>Duration of Exposure</b>	
<b>Product/substance</b>	m-phenylenebis(methylamine)
<b>PNEC</b>	0,152 mg/l
<b>Route of exposure</b>	Intermittent release
<b>Duration of Exposure</b>	
<b>Product/substance</b>	m-phenylenebis(methylamine)
<b>PNEC</b>	10 mg/l
<b>Route of exposure</b>	Sewage treatment plant
<b>Duration of Exposure</b>	
<b>Product/substance</b>	m-phenylenebis(methylamine)
<b>PNEC</b>	0,43 mg/kg
<b>Route of exposure</b>	Freshwater sediment
<b>Duration of Exposure</b>	
<b>Product/substance</b>	m-phenylenebis(methylamine)
<b>PNEC</b>	0,045 mg/kg
<b>Route of exposure</b>	Soil
<b>Duration of Exposure</b>	
<b>Product/substance</b>	m-phenylenebis(methylamine)
<b>PNEC</b>	0,043 mg/kg
<b>Route of exposure</b>	Marine water sediment



## Duration of Exposure

### 8.2. Exposure controls

Control is unnecessary if the product is used as intended.

#### General recommendations

Smoking, drinking and consumption of food is not allowed in the work area.

#### Exposure scenarios

There are no exposure scenarios implemented for this product.

#### Exposure limits

Occupational exposure limits have not been defined for the substances in this product.

#### Appropriate technical measures

Apply standard precautions during use of the product. Avoid inhalation of vapours.

#### Hygiene measures

In between use of the product and at the end of the working day all exposed areas of the body must be washed thoroughly. Always wash hands, forearms and face.

#### Measures to avoid environmental exposure

Keep damming materials near the workplace. If possible, collect spillage during work.

### Individual protection measures, such as personal protective equipment

#### Generally

Use only CE marked protective equipment.

#### Respiratory Equipment

Type	Class	Colour	Standards
In case of insufficient ventilation, wear respiratory protection. Filter type: A / AX. Respiratory protection must comply with one of the following standards: EN 136/140/145			

### Skin protection

Recommended	Type/Category	Standards
Remove soiled clothing and wash skin thoroughly with soap and water when work is complete.		

### Hand protection

Material	Glove thickness (mm)	Breakthrough time (min.)	Standards
Nitrile	-	-	EN374-2



### Eye protection

Type	Standards
------	-----------

Wear safety goggles if there is a risk of splashes in the eyes. Eye protection must comply with EN 166.	EN 166
---	--------



## SECTION 9: Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

Form

Paste

Colour

Testing not relevant or not possible due to nature of the product.

Odour

Testing not relevant or not possible due to nature of the product.

Odour threshold (ppm)

Testing not relevant or not possible due to nature of the product.

pH

Testing not relevant or not possible due to nature of the product.

Density (g/cm<sup>3</sup>)

Testing not relevant or not possible due to nature of the product.

Viscosity

Testing not relevant or not possible due to nature of the product.

Phase changes

Melting point (°C)

Testing not relevant or not possible due to nature of the product.

Boiling point (°C)

Testing not relevant or not possible due to nature of the product.

Vapour pressure

Testing not relevant or not possible due to nature of the product.

Vapour density

Testing not relevant or not possible due to nature of the product.

Decomposition temperature (°C)

Testing not relevant or not possible due to nature of the product.

Evaporation rate (n-butylacetate = 100)

Data on fire and explosion hazards

Flash point (°C)

Testing not relevant or not possible due to nature of the product.

Ignition (°C)

Testing not relevant or not possible due to nature of the product.

Auto flammability (°C)

Testing not relevant or not possible due to nature of the product.

Explosion limits (% v/v)

Testing not relevant or not possible due to nature of the product.

Explosive properties

Testing not relevant or not possible due to nature of the product.

Oxidizing properties

Testing not relevant or not possible due to nature of the product.

Solubility

Solubility in water

Testing not relevant or not possible due to nature of the product.

n-octanol/water coefficient

Testing not relevant or not possible due to nature of the product.

Solubility in fat (g/L)

Testing not relevant or not possible due to nature of the product.

## 9.2. Other information

### SECTION 10: Stability and reactivity

#### 10.1. Reactivity

No data available

#### 10.2. Chemical stability

The product is stable under the conditions, noted in section 7 "Handling and storage".

#### 10.3. Possibility of hazardous reactions

No special

#### 10.4. Conditions to avoid

No special

#### 10.5. Incompatible materials

Strong acids, strong bases, strong oxidizing agents, and strong reducing agents.

#### 10.6. Hazardous decomposition products

The product is not degraded when used as specified in section 1.

### SECTION 11: Toxicological information

#### 11.1. Information on toxicological effects

Acute toxicity

Harmful if swallowed.

Harmful if inhaled.

Skin corrosion/irritation

<b>Product/substance</b>	3-aminomethyl-3,5,5-trimethylcyclohexylamine
<b>Test method</b>	
<b>Species</b>	Rabbit
<b>Duration</b>	No data available.
<b>Result</b>	Adverse effect observed (Corrosive)
<b>Other information</b>	
<b>Product/substance</b>	4,4'-Isopropylidenediphenol, oligomeric reaction products with 1-chloro-2,3-epoxypropane, reaction products with 3-aminomethyl-3,5,5-trimethylcyclohexylamine
<b>Test method</b>	
<b>Species</b>	
<b>Duration</b>	No data available.
<b>Result</b>	Adverse effect observed (Corrosive)
<b>Other information</b>	
<b>Product/substance</b>	Phenol, styrenated
<b>Test method</b>	OECD 404
<b>Species</b>	Rabbit
<b>Duration</b>	No data available.
<b>Result</b>	Adverse effect observed (Irritating)

<b>Other information</b>	
<b>Product/substance</b>	m-phenylenebis(methylamine)
<b>Test method</b>	
<b>Species</b>	Rat
<b>Duration</b>	No data available.
<b>Result</b>	Adverse effect observed (Corrosive)
<b>Other information</b>	
<b>Product/substance</b>	2,2,4(or 2,4,4)-trimethylhexane-1,6-diamine
<b>Test method</b>	
<b>Species</b>	Rabbit
<b>Duration</b>	No data available.
<b>Result</b>	Adverse effect observed (Highly corrosive)
<b>Other information</b>	

Causes severe skin burns and eye damage.

Serious eye damage/irritation

<b>Product/substance</b>	4,4'-Isopropylidenediphenol, oligomeric reaction products with 1-chloro-2,3-epoxypropane, reaction products with 3-aminomethyl-3,5,5-trimethylcyclohexylamine
<b>Test method</b>	
<b>Species</b>	
<b>Duration</b>	No data available.
<b>Result</b>	Adverse effect observed (Causes serious eye damage)
<b>Other information</b>	
<b>Product/substance</b>	Phenol, styrenated
<b>Test method</b>	OECD 405 Acute Eye Irritation/Corrosion
<b>Species</b>	Rabbit
<b>Duration</b>	24 h
<b>Result</b>	No adverse effect observed (Not irritating)
<b>Other information</b>	
<b>Product/substance</b>	2,2,4(or 2,4,4)-trimethylhexane-1,6-diamine
<b>Test method</b>	OECD 405 Acute Eye Irritation/Corrosion
<b>Species</b>	Rabbit
<b>Duration</b>	No data available.
<b>Result</b>	Adverse effect observed (Corrosive)
<b>Other information</b>	

Causes severe skin burns and eye damage.

Causes serious eye damage.

Respiratory sensitisation

<b>Product/substance</b>	3-aminomethyl-3,5,5-trimethylcyclohexylamine
<b>Test method</b>	OECD 406
<b>Species</b>	Guinea pig
<b>Result</b>	Adverse effect observed (sensitising)
<b>Other information</b>	
<b>Product/substance</b>	4,4'-Isopropylidenediphenol, oligomeric reaction products with 1-chloro-2,3-epoxypropane, reaction products with 3-aminomethyl-3,5,5-trimethylcyclohexylamine
<b>Test method</b>	
<b>Species</b>	
<b>Result</b>	Adverse effect observed (sensitising)
<b>Other information</b>	
<b>Product/substance</b>	m-phenylenebis(methylamine)
<b>Test method</b>	
<b>Species</b>	
<b>Result</b>	Adverse effect observed (sensitising)
<b>Other information</b>	
<b>Product/substance</b>	2,2,4(or 2,4,4)-trimethylhexane-1,6-diamine
<b>Test method</b>	OECD 406
<b>Species</b>	Guinea pig
<b>Result</b>	Adverse effect observed (sensitising)
<b>Other information</b>	

Skin sensitisation

<b>Product/substance</b>	4,4'-Isopropylidenediphenol, oligomeric reaction products with 1-chloro-2,3-epoxypropane, reaction products with 3-aminomethyl-3,5,5-trimethylcyclohexylamine
<b>Test method</b>	
<b>Species</b>	
<b>Result</b>	Adverse effect observed (sensitising)
<b>Other information</b>	

Germ cell mutagenicity

<b>Product/substance</b>	Phenol, styrenated
<b>Test method</b>	OECD 471
<b>Species</b>	salmonella typhimurium
<b>Conclusion</b>	Adverse effect observed
<b>Other information</b>	

**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.

**Long term effects**

Tissue-damaging effects: This product contains substances with skin corrosive properties. Inhaled vapour or aerosols may produce adverse effects to lungs, -irritations and burns in the respiratory organs -as well as coughing. Dermal contact and contact with the eye cause irreversible effects.

**Other information**

No special

## SECTION 12: Ecological information

### 12.1. Toxicity

<b>Product/substance</b>	3-aminomethyl-3,5,5-trimethylcyclohexylamine
<b>Test method</b>	
<b>Species</b>	Algae
<b>Compartment</b>	
<b>Duration</b>	72 hours
<b>Test</b>	EC50
<b>Result</b>	37 mg/L
<b>Other information</b>	
<b>Product/substance</b>	3-aminomethyl-3,5,5-trimethylcyclohexylamine
<b>Test method</b>	
<b>Species</b>	Fish
<b>Compartment</b>	
<b>Duration</b>	96 hours
<b>Test</b>	LC50
<b>Result</b>	110 mg/L
<b>Other information</b>	
<b>Product/substance</b>	3-aminomethyl-3,5,5-trimethylcyclohexylamine
<b>Test method</b>	
<b>Species</b>	Daphnia
<b>Compartment</b>	
<b>Duration</b>	48 hours
<b>Test</b>	EC50

<b>Result</b>	23 mg/L
<b>Other information</b>	
<b>Product/substance</b>	benzyl alcohol
<b>Test method</b>	
<b>Species</b>	Fish
<b>Compartment</b>	
<b>Duration</b>	96 hours
<b>Test</b>	LC50
<b>Result</b>	460.00 mg/L
<b>Other information</b>	
<b>Product/substance</b>	Phenol, styrenated
<b>Test method</b>	
<b>Species</b>	Fish
<b>Compartment</b>	
<b>Duration</b>	96 hours
<b>Test</b>	LC50
<b>Result</b>	> 1 - 10 mg/L
<b>Other information</b>	
<b>Product/substance</b>	Phenol, styrenated
<b>Test method</b>	
<b>Species</b>	Daphnia
<b>Compartment</b>	
<b>Duration</b>	3 hours
<b>Test</b>	EC50
<b>Result</b>	362 mg/L
<b>Other information</b>	
<b>Product/substance</b>	m-phenylenebis(methylamine)
<b>Test method</b>	
<b>Species</b>	Fish
<b>Compartment</b>	
<b>Duration</b>	96 hours
<b>Test</b>	LC50
<b>Result</b>	87,6 mg/L
<b>Other information</b>	
<b>Product/substance</b>	m-phenylenebis(methylamine)

<b>Test method</b>	
<b>Species</b>	Daphnia
<b>Compartment</b>	
<b>Duration</b>	48 hours
<b>Test</b>	EC50
<b>Result</b>	15,2 mg/L
<b>Other information</b>	
<b>Product/substance</b>	m-phenylenebis(methylamine)
<b>Test method</b>	
<b>Species</b>	Algae
<b>Compartment</b>	
<b>Duration</b>	72 hours
<b>Test</b>	EC50
<b>Result</b>	32,1 mg/L
<b>Other information</b>	
<b>Product/substance</b>	m-phenylenebis(methylamine)
<b>Test method</b>	
<b>Species</b>	microorganisms
<b>Compartment</b>	
<b>Duration</b>	No data available.
<b>Test</b>	EC50
<b>Result</b>	>1000 mg/L
<b>Other information</b>	
<b>Product/substance</b>	2,2,4(or 2,4,4)-trimethylhexane-1,6-diamine
<b>Test method</b>	
<b>Species</b>	Algae
<b>Compartment</b>	
<b>Duration</b>	72 hours
<b>Test</b>	EC50
<b>Result</b>	43,5 mg/L
<b>Other information</b>	
<b>Product/substance</b>	2,2,4(or 2,4,4)-trimethylhexane-1,6-diamine
<b>Test method</b>	
<b>Species</b>	Daphnia
<b>Compartment</b>	



According to EC-Regulation 1907/2006 (REACH), annex II, as implemented by EC-Regulation 2015/830

<b>Duration</b>	24 h
<b>Test</b>	EC50
<b>Result</b>	31,5 mg/L
<b>Other information</b>	
<b>Product/substance</b>	2,2,4(or 2,4,4)-trimethylhexane-1,6-diamine
<b>Test method</b>	
<b>Species</b>	Fish
<b>Compartment</b>	
<b>Duration</b>	48 hours
<b>Test</b>	LC50
<b>Result</b>	174 mg/L
<b>Other information</b>	
<b>Product/substance</b>	2,2,4(or 2,4,4)-trimethylhexane-1,6-diamine
<b>Test method</b>	
<b>Species</b>	
<b>Compartment</b>	
<b>Duration</b>	56 days
<b>Test</b>	NOEC
<b>Result</b>	>=1000 mg/kg
<b>Other information</b>	

#### 12.2. Persistence and degradability

<b>Product/substance</b>	benzyl alcohol
<b>Biodegradable</b>	Yes
<b>Test method</b>	OECD 301 A
<b>Result</b>	95-97 %
<b>Product/substance</b>	m-phenylenebis(methylamine)
<b>Biodegradable</b>	No
<b>Test method</b>	OECD 301 B
<b>Result</b>	ikke let bionedbrydelig

#### 12.3. Bioaccumulative potential

<b>Product/substance</b>	3-aminomethyl-3,5,5-trimethylcyclohexylamine
<b>Test method</b>	
<b>Potential bioaccumulation</b>	No data available

<b>LogPow</b>	0,99 (23°C)
<b>BCF</b>	No data available
<b>Other information</b>	
<b>Product/substance</b>	benzyl alcohol
<b>Test method</b>	
<b>Potential bioaccumulation</b>	No
<b>LogPow</b>	1.1
<b>BCF</b>	1
<b>Other information</b>	
<b>Product/substance</b>	Phenol, styrenated
<b>Test method</b>	
<b>Potential bioaccumulation</b>	No data available
<b>LogPow</b>	> 4 (22 °C)
<b>BCF</b>	14.43
<b>Other information</b>	
<b>Product/substance</b>	2,2,4(or 2,4,4)-trimethylhexane-1,6-diamine
<b>Test method</b>	
<b>Potential bioaccumulation</b>	No data available
<b>LogPow</b>	-0,3 (25°C)
<b>BCF</b>	No data available
<b>Other information</b>	

#### 12.4. Mobility in soil

3-aminomethyl-3,5,5-trimethylcyclohexylamine

LogKoc = 928.00, Low mobility potential.

benzyl alcohol

LogKoc = 5.00, Low mobility potential.

Phenol, styrenated

LogKoc = 856.10, Low mobility potential.

#### 12.5. Results of PBT and vPvB assessment

This mixture/product does not contain any substances considered to meet the criteria classifying them as PBT and/or vPvB.

#### 12.6. Other adverse effects

This product contains substances that are toxic to the environment. May result in adverse effects to aquatic organisms.

This product contains substances, which may cause adverse long-term effects to the aquatic environment.

### SECTION 13: Disposal considerations

#### 13.1. Waste treatment methods

Product is covered by the regulations on hazardous waste.

HP 6 - Acute toxicity

According to EC-Regulation 1907/2006 (REACH), annex II, as implemented by EC-Regulation 2015/830

HP 8 – Corrosive

HP 13 – Sensitising

HP 14 – Ecotoxic

Avoid discharge to lakes, streams, sewers, etc.

Dispose of contents/container to an approved waste disposal plant.

Regulation (EU) No 1357/2014 of 18 December 2014 on waste.

EWC code

08 04  
09\* Waste adhesives and sealants containing organic solvents or other dangerous substances

08 04  
15\* Aqueous liquid waste containing adhesives or sealants containing organic solvents or other dangerous substances

17 09 03 Other construction and demolition wastes (including mixed wastes) containing dangerous substances

Specific labelling

Not applicable

Contaminated packing

Packaging containing residues of the product must be disposed of similarly to the product.

## SECTION 14: Transport information

14.1 - 14.4

This product is within scope of the regulations of transport of dangerous goods.

ADR/RID

UN- or ID number	UN proper shipping name	Labels	Packing group	Tunnel restriction code
2735	AMINES, LIQUID, CORROSIVE, N.O.S. or POLYAMINES, LIQUID, CORROSIVE, N.O.S.	8	II	2 (E)

IMDG

UN- or ID number	UN proper shipping name	Labels	Packing group	EmS
2735	AMINES, LIQUID, CORROSIVE, N.O.S. or POLYAMINES, LIQUID, CORROSIVE, N.O.S.	8	II	F-A, S-B

"MARINE POLLUTANT"

Yes

IATA

Not applicable

14.5. Environmental hazards

This product contains substances, which may cause adverse long-term effects to the aquatic environment.

14.6. Special precautions for user

Not applicable

14.7. Transport in bulk according to Annex II of Marpol and the IBC Code

No data available

## SECTION 15: Regulatory information

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

Restrictions for application

People under the age of 18 shall not be exposed to this product.

Demands for specific education

No specific requirements

SEVESO - Categories / dangerous substances

E2 - ENVIRONMENTAL HAZARDS, Qualifying quantity (lower-tier): 200 tonnes / (upper-tier): 500 tonnes

Additional information

Tactile warning.

If this product is sold in retail, it must be delivered with child-resistant fastening.

Sources

The Management of Health and Safety at Work Regulations 1999

Control of Major Accident Hazards (COMAH) Regulations 2015.

Regulation (EU) No 1357/2014 of 18 December 2014 on waste.

Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures (CLP).

Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH).

15.2. Chemical safety assessment

No

SECTION 16: Other information

Full text of H-phrases as mentioned in section 3

EUH071, Corrosive to the respiratory tract.

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.

H332, Harmful if inhaled.

H411, Toxic to aquatic life with long lasting effects.

H412, Harmful to aquatic life with long lasting effects.

Abbreviations and acronyms

ADN = European Provisions concerning the International Carriage of Dangerous Goods by Inland Waterway

ADR = The European Agreement concerning the International Carriage of Dangerous Goods by Road

ATE = Acute Toxicity Estimate

BCF = Bioconcentration Factor

CAS = Chemical Abstracts Service

CE = Conformité Européenne

CLP = Classification, Labelling and Packaging Regulation [Regulation (EC) No. 1272/2008]

CSA = Chemical Safety Assessment

CSR = Chemical Safety Report

DMEL = Derived Minimal Effect Level

DNEL = Derived No Effect Level

EINECS = European Inventory of Existing Commercial chemical Substances

ES = Exposure Scenario

EUH statement = CLP-specific Hazard statement

EWC = European Waste Catalogue

GHS = Globally Harmonized System of Classification and Labelling of Chemicals

IARC = International Agency for Research on Cancer (IARC)

IATA = International Air Transport Association

IBC = Intermediate Bulk Container

IMDG = International Maritime Dangerous Goods

LogPow = logarithm of the octanol/water partition coefficient  
MARPOL = International Convention for the Prevention of Pollution From Ships, 1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution)  
OECD = Organisation for Economic Co-operation and Development  
PBT = Persistent, Bioaccumulative and Toxic  
PNEC = Predicted No Effect Concentration  
RID = The Regulations concerning the International Carriage of Dangerous Goods by Rail  
RRN = REACH Registration Number  
SCL = A specific concentration limit.  
SVHC = Substances of Very High Concern  
STOT-RE = Specific Target Organ Toxicity - Repeated Exposure  
STOT-SE = Specific Target Organ Toxicity - Single Exposure  
TWA = Time weighted average  
UN = United Nations  
UVCB = Complex hydrocarbon substance  
VOC = Volatile Organic Compound  
vPvB = Very Persistent and Very Bioaccumulative

#### Additional information

The classification of the substance/mixture in regard of health hazards are in accordance with the calculation methods given by Regulation (EC) No. 1272/2008 (CLP)

The classification of the substance/mixture in regard of environmental hazards are in accordance with the calculation methods given by Regulation (EC) No. 1272/2008 (CLP)

The safety data sheet is validated by

Reyhane R. Kanafi

#### Other

A change (in proportion to the last essential change (first cipher in SDS version, see section 1)) is marked with a blue triangle.

The information in this safety data sheet applies only to this specific product (mentioned in section 1) and is not necessarily correct for use with other chemicals/products.

It is recommended to hand over this safety data sheet to the actual user of the product. Information in this safety data sheet cannot be used as a product specification.

Country-language: GB-en