

According to Directive 1907/2006/EC, 2015/830

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Version 5.0

Revision Date: 03-12-2020

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Trade name: Flexpox hardener

**SECTION 1: Identification of the substance or mixture and of the company/company****1.1 Product identification:**

Product name:

Flexpox hardener

UFI code:

XM10-XOT1-P007-MF6A

**1.2**Relevant identified uses ofthe substance or mixture and dissuaded uses: Uses: Epoxy hardener**1.3**Detailsconcerning the provider of the safety data sheet: Responsible

distributor :

Nedform BV

Hofdwarsweg 20, 6161DD Geleen,

Netherlands Tel: +31 (0)464106260

Website: [www.nedform.com](http://www.nedform.com)Email: [info@nedform.com](mailto:info@nedform.com)**1.4 Emergency telephone number:**

For Belgium:

Call the Poison Control Centre (070 245 245 - free of charge), if not available: 02 264 96 30 (normal rate) or your doctor. In case of life-threatening situations, always call the European emergency number 112.

For the Netherlands:

The **National Poisons Information Center** is available day and night, both by telephone and via the internet. You can find more information about the NVIC on [www.umcutrecht.nl/nvic](http://www.umcutrecht.nl/nvic). The NVIC can only be reached by telephone for professional emergency responders in the event of calamities (030-274 8888) or via the website [www.vergiftiging.info](http://www.vergiftiging.info).

**SECTION 2: Hazard identification****2.1 Classification of the substance or mixture:****Classification according to Directive (EC) No. 1272/2008 and its amendments .**

The product is classified according to the applicable legislation.

**Classification in accordance with Regulation (EC) No. 1272/2008 as amended. Health hazards**

Acute toxicity, Category 4 - H302: Harmful if swallowed.

Skin corrosion/irritation, Category 1B - H314: Causes severe burns and eye injuries. Serious

eye damage, Category 1 - H318: Causes serious eye damage.

Skin sensitization, Category 1 - H317: May cause an allergic skin reaction.

(Chronic) long-term aquatic hazard, Category 2 - H411: Toxic to aquatic organisms, with long-term effects.

For the full text of H-phrases as mentioned in this paragraph, see paragraph 16.

**2.2 Label elements:****Labelling according to regulation (EC) No 1272/2008 [CLP/GHS]:****Hazard pictograms:****Signal word**

Danger.

**Dangerous ingredients to be labelled:**

- ✓ 3-aminomethyl-3,5,5-trimethylcyclohexylamine
- ✓ 2,2,4-trimethylhexane-1,6-diamine

**Hazard statements:**

H302 Harmful if swallowed.

H314 Causes severe burns and eye injuries.

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H317 May cause an allergic skin reaction.

H411 Toxic to aquatic organisms, with long-lasting effects.

**Additional hazard statements :**  
EUH071 Respiratory bite .

## Precautions

### Prevention:

P261 Avoid inhalation of dust/ smoke / gas / mist/ vapor / spray mist .

P273 Prevent discharge into the environment.

P280 Wear protective gloves/ eye protection/ face protection .

### Action:

P303 + P361 + P353 IN CONTACT WITH SKIN (OR HAIR): take off contaminated clothing immediately.

Rinse /showerskin with water.

P304 + P340 + P310 AFTER INHALATION: Bringing the person into the fresh air and making sure that it can breathe easily . Immediately consult a POISON CENTRE/doctor.

P305 + P351 + P338 + P310 IN CASE OF EYE CONTACT: rinse gently with water for several minutes; remove contact lenses, if possible; keep rinsing. Immediately consult a POISON CENTRE/doctor.

### 2.3 Other hazards:

This substance/mixture does not contain any components that can be considered persistent, bioaccumulative and toxic (PBT) or as very persistent and very bioaccumulative (vPvB) on levels of 0.1% or higher.

## SECTION 3: Composition and information on ingredients

### 3.2 Mixtures:

#### Description:

Chemical description : Cycloaliphatic amine based mixture

Chemical Name	Cas No. EC No/List Registration	Classification (Regulation (EC) No. 1272/008)	Concentration (%)
3-aminomethyl-3,5,5-trimethylcyclohexylamine	2855-13-2 220-666-8 01-2119514687-32	Acute Tox.4; H302 Acute Tox.4; H312 Skin Corr.1B; H314 Eye Dam.1; H318 Skin Sens.1;	>= 30 - < 50
Benzyl alcohol	100-51-6 202-859-9 01-2119492630-38	Acute Tox.4; H302 Acute Tox.4; H332 Eye	>= 20 - < 25
4,4'-Isopropylidenediphenol, oligomeric reaction products with 1-2,3-epoxypropane, reaction products trimethylhexane-1,6-diamine	153195-44-9 01-2120781950-47-0001	Skin Corr.1B; Eye Dam.1; Aquatic Chronic1; Aquatic Acute1;	>= 12.5 - < 20
Poly[oxy(methyl-1,2-ethanediyl)], .alpha.-(2-	9046-10-0 01-2119557899-12	Skin Corr.1C; H314 Eye Dam.1; H318.	>= 10 - < 12,5

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.omega.-(2-aminomethylethoxy)-			
2,2,4-trimethylhexane-1,6-diamine	25513-64-8 247-063-2 01-2119560598-25	Acute Tox.4; H302. Skin Corr.1A; H314. Eye Dam.1; H318. Skin Sens.1A; H317.	>= 1 - < 3

For explanation of the abbreviations see section 16.

## SECTION 4: First aid measures

### 4.1 Description of first aid measures:

#### General advice:

Present this safety data sheet to the doctor on duty. Keep warm and bring in a quiet environment. Take off contaminated clothing immediately.

#### When inhaled:

Bring in the fresh air. Keep victim warm and calm.

In case of unconsciousness, apply stable lateral position and seek medical help. If symptoms persist, consult a doctor.

In the event of irregular breathing or respiratory arrest, apply artificial ventilation.

#### In case of contact with skin:

Wash off immediately with soap and plenty of water. DO NOT use solvents or paint thinner.

When tampering with clothes, take off clothes.

Burns should be cared for by a doctor.

#### In case of contact with the eyes:

Rinse immediately with plenty of water, including under the eyelids, for at least 15 minutes. If eye irritation persists consult a specialist.

As far as it is easy to do, remove any contact lenses.

#### If swallowed:

DO NOT induce vomiting.

Someone who lies on the back and vomits, in a stable side position. Immediately alert a doctor.

Water small amounts.

### 4.2 Main acute and delayed symptoms and effects:

#### Symptoms:

Burn

superficial burning sensation

Redness

Strong irritation

### 4.3 Indication of the required immediate medical care and special treatment:

#### Treatment:

The procedure for first aid must be drawn up together with the company doctor.

## SECTION 5: Firefighting measures

### 5.1 Extinguishing

agents: Suitable

#### extinguishing agents:

Carbon dioxide (CO2)

Foam

Dry powder Water mist

#### Unsuitable extinguishing agents:

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Nothing known.

5.2 Special hazards arising from the substance or mixture:

**Specific firefighting hazards:**

Heat can increase the pressure in sealed containers.  
Sealed containers near the fire cool with water mist. In the event of a fire, dangerous decomposition products are formed.

5.3 Advice for firefighters:

**Special protective equipment for firefighters:**

Wear a compressed air mask in case of fire. Using personal protective equipment.

**Further information:**

Avoid inhaling smoke in the event of fire and/or explosion.  
Use extinguishing agents suitable for local conditions and the environment. Immediately evacuate personnel to a secure area.  
Prevent extinguishing water from polluting surface water or groundwater systems.

**SECTION 6: Measures in the event of accidental release of the substance or mixture**

6.1 Personal precautions, protective equipment and emergency procedures:

**Personal precautions:**

See the protective measures in paragraphs 7 and 8.  
Evacuate personnel to a safe environment.  
Using personal protective equipment. Make sure you have sufficient ventilation.  
Inform the competent authority in the event of gas leaks, or in the event of run-offs in waterways, soil or sewers.

6.2 Environmental precautions:

**Environmental precautions:**

Prevent uncontrolled discharge of product into the environment.  
Try to prevent the material from draining into sewer or waterloop.  
In the event of significant leaks that cannot be contained, the local authority must be informed.

6.3 Containment and cleaning methods and material:

**Cleaning methods:**

Incorporate into inert absorbent material (e.g. sand, pebble, acid binder, universal binder, sawdust).  
Reduce spills and collect with non-combustible absorption materials, (e.g. sand, soil, diatome earth, vermiculite) and transfer to a vessel for removal according to local/ national regulations (see paragraph 13).

Pick up and transfer in containers that are properly labeled.

6.4 Reference to other headings:

For personal protection see section 8.

**SECTION 7: Handling and storage:**

7.1 Precautions for the safe handling of the substance or mixture:

**Advice for safe handling:**

Ensure sufficient air exchange and/or extraction at the workplace. Do not inhale vapours or spray mist.

Avoid inhalation, ingestion and contact with skin and eyes.

Wear personal protective clothing.

Persons suffering from skin sensitisation problems, asthma, allergies, chronic or recurrent respiratory diseases should not do work using this mixture.

**Advice for protection against fire and explosion:**

Keep away from open flame, hot surfaces and ignition sources.

**Hygienic measures:**

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Make sure there is enough air exchange. Wash hands and face before work stoppage and immediately after using the product.

7.2 Conditions for safe storage, including incompatible products:

**Requirements for storage spaces and containers:**

Keep containers tightly closed in a dry, cool and well-ventilated place. Store in correctly labelled containers. To maintain product quality do not expose to heat or direct sunlight. **Details of storage conditions:**

Protect against moisture.

**Advice for mixed storage:** Keep away isocyanates Do not store in close proximity to acids. Keep away from oxidizing agents.

**Other data:**

Stable at normal room temperature and pressure. 7.3 Specific end-use:

**Specific use:**

Before using this substance/mixture, consult the technical guidelines.

**SECTION 8: Exposure control measures/personal protection**

8.1 Control parameters:

The product does not contain any ingredients for which exposure values have been set.

**Derived no-effect doses (DNEL) in accordance with Regulation (EC) No 1907/2006:** benzyl alcohol:

End Use: Workers Route of exposure:

Inhalation

Possible health conditions: Short-term exposure, Systemic effects Value: 450 mg/m<sup>3</sup>

End Use: Workers Route of exposure:

Inhalation

Possible health conditions: prolonged exposure, Systemic effects Value: 90 mg/m<sup>3</sup>

End use: Workers Route of exposure:

Contact with skin

Possible health conditions: Short-term exposure, Systemic effects Value: 47 mg/kg

End use: Workers Route of exposure:

Contact with skin

Possible health conditions: prolonged exposure, Systemic effects Value: 9.5 mg/kg

End Use: Consumer Route of

Exposure: Ingestion

Possible health conditions: Short-term exposure, Systemic effects Value: 25 mg/kg

End Use: Consumer Route of

Exposure: Ingestion

Possible health conditions: prolonged exposure, Systemic effects Value: 5 mg/kg

End Use: Consumer Route of

Exposure: Inhalation

Possible health conditions: Short-term exposure, Systemic effects Value: 40.55 mg/m<sup>3</sup>

End use: Consumers

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Route of exposure: Inhalation

Possible health conditions: prolonged exposure, Systemic effects Value: 8.11 mg/m<sup>3</sup>

End Use: Consumer Route of Exposure :

Skin Contact

Possible health conditions: Short-term exposure, Systemic effects Value: 28.5 mg/kg

End Use: Consumer Route of Exposure :

Skin Contact

Possible health conditions: prolonged exposure, Systemic effects Value: 5.7 mg/kg

Poly[oxy(methyl-1,2-ethanediyl)], .alpha.-(2-aminomethylethyl)-.omega.-(2-aminomethylethoxy)-: End use: Workers

Route of exposure : Contact with skin

Possible health conditions: Long-term - systemic effects Value: 2.5 mg/kg

End use: Workers Exposure route: Contact with skin

Possible health conditions: Long-term local effects Value: 0.623 mg/cm<sup>2</sup>

End Use: Consumer Route of Exposure :

Skin Contact

Possible health conditions: Long-term - systemic effects Value: 1.25 mg/kg

End Use: Consumer Route of Exposure :

Skin Contact

Possible health conditions: Long-term local effects Value: 0.311 mg/cm<sup>2</sup>

End Use: Consumer Route of

Exposure: Ingestion

Possible health conditions: Long-term - systemic effects Value: 0.04 mg/kg

**Predicted concentration without effect (PNEC) in accordance with Regulation (EC) Number 1907/2006:**

3-aminomethyl-3,5,5-trimethylcyclohexylamine

Freshwater

Value: 0,06 mg/l

Seawater

Value: 0,006 mg/l

Sporadic release Value:

0,23 mg/l Freshwater

deposit Value: 5,784

mg/kg Sea deposit

Value: 0,578 mg/kg Sewage

treatment plant Value: 3,18 mg/l

Bottom

Value: 1,121 mg/kg

benzyl alcohol:

Freshwater

Value: 1 mg/l

Seawater

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Value: 0,1 mg/l

Freshwater deposit

Value: 5,27 mg/kg Sea  
deposit

Value: 0,527 mg/kg Soil

Value: 0,456 mg/kg Sewage

treatment plant Value: 39 mg/l

Sporadic release Value:

2,3 mg/l

Poly[oxy(methyl-1,2-ethanediyl)], .alpha.-(2-aminomethylethyl)-.omega.-(2-aminomethylethoxy)-:

Freshwater

Value: 0,015 mg/l

Seawater

Value: 0,0143 mg/l

Freshwater deposit

Value: 0,132 mg/kg Sea  
deposit

Value: 0,125 mg/kg Soil

Value: 0,0176 mg/kg

Sporadic release Value:

0,15 mg/l

Sewage treatment plant Value: 7,5  
mg/l

#### 8.2 Exposure control measures :

##### **Technical means of control:**

Effective exhaust ventilation system

effective ventilation at all workplaces **Personal**

**protective equipment: Protection of the eyes:**

Do not wear contact lenses.

Safety glasses with side screens according to EN 166

Provide eyewash devices and safety showers near the workplace.

##### **Protection of hands Material:**

Protective gloves according to EN 374.

**Remarks :** Nitrile rubber

##### **Skin and body protection:**

Protective clothing

Recommended preventive skin protection

##### **Respiratory protection :**

When handling the substance, respiratory protection must be worn if there is a risk of exposure to the vapour of the substance.

The filter class of the respiratory protection must be suitable for the maximum concentration of contamination (gas/vapour/aerosol/particles) that may arise when handling the product. If this concentration is exceeded, compressed air masks must be used.

##### **Recommended filter type:**

ABEK filter.

The Equipment shall Be in accordance with AND

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**Protective measures:**

Avoid contact with skin .  
Wear appropriate personal protective equipment.

**SECTION 9: Physical and chemical properties****9.1 Information on basic physical and chemical properties:**

Appearance:	liquid
Color:	light yellow
Odour:	ammoniacal
Odour threshold value :	Not implemented
pH:	11.1 %
Melting/freezing point:	Not applicable
Boiling point/boiling range:	> 200 °C
Flash point:	150 °C
Evaporation speed:	Not executed
Upper explosion limit:	Not applicable
Lower explosion limit:	Not applicable
Vapour pressure:	Not applicable
Relative vapour density:	Not implemented
Density:	1 g/cm <sup>3</sup> (25 °C)
Bulk specific gravity:	Not carried out
Solubility:	
Solubility in other solvents:	Not implemented Partition coefficient:
n-octanol/water:	No data available
Ignition temperature:	Not applicable
Self-ignition temperature:	Not applicable
Thermal decomposition:	Method: No data available Viscosity
Viscosity, dynamic:	150-250 mPa.s (25 °C)
Viscosity, kinematic:	Not performed
Explosion properties :	Not applicable
Oxidising properties:	Not applicable

**9.2 Other information**

Surface tension:	Not implemented
Sublimation point:	Not applicable

**SECTION 10: Stability and reactivity****10.1 Reactivity:**

Stable under recommended storage conditions. 10.2 .

**Chemical Stability:**

No decomposition if stored and applied as indicated. 10.3 .

**Possible Dangerous Reactions:****Dangerous reactions:**

Reacts with the following  
substances: Acids

Strong oxidizing agents

**10.4 Conditions to be avoided:**

No decomposition if directions are followed. 10.5 .

**Chemically interacting Materials:****Materials to avoid :**

Strong acids



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Strong oxidizing agents

10.6 Dangerous Decomposition Products:

**The following substances can be released from this product:**

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

Carbon monoxide

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

**SECTION 11: Toxicological information**

11.1 Information on toxicological effects:

**Acute Toxicity**

Product:

Acute oral toxicity:

Acute toxicity estimates : 715,82 mg/kg

Method: Calculation method

Acute inhalation toxicity : Notes: No

data available Acute dermal toxicity:

Acute toxicity estimates : > 2,000 mg/kg

Method: Calculation method

Acute toxicity (other route of administration):

Notes: No data available

Ingredients:

benzyl alcohol:

Acute inhalation toxicity :

LC50 (Rat, male and female): > 4,178 mg/l

Exposure time: 4 h

Test atmosphere:

Method: OECD Test Guideline

GLP:

Poly[oxy(methyl-1,2-ethanediyl)], .alpha.-(2-aminomethylethyl)-.omega.-(2-aminomethylethoxy)-:

Acute oral toxicity:

LD50 (Rat, male and female): 2,885.3 mg/kg

Method: OECD Test Guideline

GLP:

Acute dermal toxicity:

LD50 (Rabbit, male and female): 2,979.7 mg/kg

Method: OECD Test Guideline

GLP:

**Skin corrosion/-irritation**

Product:

Remarks: No data available Ingredients:

benzyl alcohol:

Species: Rabbit

Method: OECD test guideline 404

Result: No skin irritation

GLP: yes

4,4'-Isopropylidenediphenol, oligomeric reaction products with 1-chloro-2,3-epoxypropane, reaction with trimethylhexane-1,6:

Type: human skin

Rating: Causes burns.

Method: OECD Test Guideline

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Result: Corrosive to the skin GLP:  
yes

Poly[oxy(methyl-1,2-ethanediyl)], .alpha.-(2-aminomethylethyl)-.omega.-(2-aminomethylethoxy)-:

Species: Rabbit

Method: OECD Test Guideline 404

Result: Bijtend

**Serious eye damage/eye irritation**

Product:

Remarks: No data available Ingredients:

benzyl alcohol:

Species: Rabbit

Method: OECD Test Guideline 405

Result: Eye irritation

GLP: yes

Poly[oxy(methyl-1,2-ethanediyl)], .alpha.-(2-aminomethylethyl)-.omega.-(2-aminomethylethoxy)-:

Method: OECD Test Guideline

Result: Danger of serious eye

**Respiratory/skin sensitization**

Product:

Remarks: No data available Germ cell

**mutagenicity Carcinogenicity**

Product:

Remarks: No data available

**Reproductive toxicity**

Product:

Effects on fertility: Notes: No data available  
Comments: No data available  
Effects on fetal development: Notes: No data available  
Notes: No data available

**STOT at single exposure**

**STOT at repeated exposure**

**Repeated dose toxicity** Product:

Remarks: No data available

**Aspirational gift**

Ingredients:

3-aminomethyl-3,5,5-trimethylcyclohexylamine:

No classification for aspiration toxicity .

**Further information**

Product:

Remarks: No data available

**SECTION 12: Ecological information**

**12.1 Toxicity**

y: Product:

Toxicity to fish:

Remarks: No data available

Toxicity to daphnias and other aquatic invertebrates:

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Remarks: No data available Ingredients:3-aminomethyl-3,5,5-trimethylcyclohexylamine:

Toxicity to fish:

LC50 (Leuciscus idus (Goudwinde)): 110 mg/l

Exposure time: 96 h

Test type: semi-static test

Method: Directive 67/548/EEC, Annex V,

C.1. GLP: yes

Toxicity to daphnias and other aquatic invertebrates : EC50

(Daphnia magna (large waterflea)): 23 mg/l Exposuretime: 48 h

Test type: static test Method:

OECD test guideline 202 GLP:

yes

Toxicity to algae:

ErC50 (Scenedesmus capricornutum (freshwateralgae)): &gt; 50

mg/l Exposure time: 72 h

Test type: static test

Method: Directive 67/548/EEC, Annex V,

C.3. GLP: yes

Toxicity to daphnias and other aquatic invertebrates (Chronic toxicity): NOEC: 3 mg/l

Exposure time: 21 d

Species: Daphnia magna (large water flea)

Test type: semi-static test

GLP: yes benzylalcohol:

Toxicity to daphnias and other aquatic invertebrates: EC50

(Daphnia magna (large waterflea)): 230 mg/l Exposure time: 48 h

Method: OECD Test Guideline

202 GLP: yes

Toxicity to algae:

ErC50 (Pseudokirchneriella subcapitata (green algae)): 770

mg/l Exposure time: 72 h

Test type: static test Method:

OECD test guideline 201 GLP:

yes

4,4'-Isopropylidenediphenol, oligomeric reaction products with 1-chloro-2,3-epoxypropane, reaction with trimethylhexane-1,6:

Toxicity to daphnias and other aquatic invertebrates:

EL50 (Daphnia magna (large waterflea)): 0.64

Exposure time: 48 h

Test type: static test

Method: OECD Test Guideline

GLP:

Toxicity to algae:

EL50 (Pseudokirchneriella subcapitata (green algae)): 0.96

Nudestellingstijd: 72

Test type: Growth

Method: OECD Test Guideline

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GLP: yes

M-factor ((Acute) Short-term aquatic hazard): 1

Poly[oxy(methyl-1,2-ethanediyl)], .alpha.-(2-aminomethylethyl)-.omega.-(2-aminomethylethoxy)-: Toxicity to fish:

LC50 (Oncorhynchus mykiss (rainbowtrout)): > 15 mg/l

Exposure time: 96 h

Test type: semi-static test

Method: OECD Test Guideline

203 GLP: yes

Toxicity to daphnas and other aquatic invertebrates : EC50

(Daphnia magna (large waterflea)): 80 mg/l Exposure time: 48 h

Test type: static test Method:

OECD test guideline 202 GLP:

yes

Toxicity to algae:

NOEC (Pseudokirchneriella subcapitata (green algae)): 0.32

mg/l Exposure time: 72 h

Test type: static test Method:

OECD test guideline 201 GLP:

yes

#### 12.2 Persistence and Degradability:

Product:

Biodegradability : Remarks: No data

available Ingredients:

3-aminomethyl-3,5,5-trimethylcyclohexylamine:

Biodegradability :

Test type: aerobic

Result: Not readily biodegradable. Method:

Directive 67/548/EEC, Annex V, C.4.A. GLP: yes

4,4'-Isopropylidenediphenol, oligomeric reaction products with 1-chloro-2,3-epoxypropane, reaction with trimethylhexane-1,6:

Biodegradability:

Result: Easily biodegradable .

Method: OECD Test Guideline

GLP:

Poly[oxy(methyl-1,2-ethanediyl)], .alpha.-(2-aminomethylethyl)-.omega.-(2-aminomethylethoxy)-:

Biodegradability :

Test type: aerobic

Result: Not readily biodegradable. Method: OECD Test

Guideline 301 B

GLP: yes

#### 12.3 Bioaccumulation:

ion: Product:

Bioaccumulation:

Remarks: No data available Ingredients:

3-aminomethyl-3,5,5-trimethylcyclohexylamine:

Partition coefficient: n-octanol/water:

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log Pow: 0.99  
Method: OECD Test Guideline  
107 GLP: yes  
Poly[oxy(methyl-1,2-ethanediyl)], .alpha.-(2-aminomethylethyl)-.omega.-(2-aminomethylethoxy)-: Partition coefficient: n-octanol/water:  
log Pow: 1.34 (25 °C)  
Method: OECD Test Guideline  
117 GLP: yes  
12.4 Mobility in soil : No data available  
12.5 Results of PBT and zB assessment:  
Product:  
Rating:  
This substance/mixture does not contain any components that can be considered persistent, bioaccumulative and toxic (PBT) or as very persistent and very bioaccumulative (vPvB) on levels of 0.1% or higher.  
12.6 Other Harmful Effects:  
Product:  
Additional ecological information:  
Remarks: If this substance is not used improperly or disposed of, there is a risk of damage to the environment.

## **SECTION 13: Disposal instructions**

### **13.1 Waste treatment methods**

#### **Product:**

According to local and national regulations.  
Container dangerous in empty condition.  
Do not dispose of along with household waste.  
Do not mix streams during the collection of waste.

#### **Contaminated packaging:**

Empty containers must be disposed of to an approved waste treatment plant for reuse or disposal.

## **SECTION 14: Information relating to transport**

### **14.1 UNnumber**

ADR/RID/ADN:	UN 2735
IMDG:	UN 2735
IATA:	UN 2735

### **14.2 Correct cargo name in accordance with the MODEL REGULATIONS OF THE UN ADR/RID/ADN:**

AMINES, LIQUID, CORROSIVE, N.O.S.

	(Isophorone diamine)
IMDG:	AMINES, LIQUID, CORROSIVE, N.O.S. (ISOPHORONEDIAMINE)
IATA:	Amines, liquid, corrosive, n.o.s. ((Isophorone diamine)

### **14.3 Transport hazard class(n) ADR/RID/ADN:**

	I
IMDG:	8
IATA:	8

### **14.4 Packaging group**

#### **ADR/RID/ADN**

Packing group:	III
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Classification Code: C7  
Hazard Identification No.: 80  
Labels: 8  
Comments: E

## Imdg

Packing group: III  
Labels: 8  
EmS Code: F-A, S-B  
Remarks: IMDG Code segregation group 18 - Alkalies

## IATA

Packaging requirement (cargo aircraft): 856  
Packaging requirement (passenger aircraft): 852  
Packing group: III  
Labels: 8

14.5

## ADR/RID/AND

Environmentally hazardous

y

## Imdg

Marine pollution:

## IATA

Environmentally hazardous:

## 14.6 Special precautions for the user

### Remarks:

The transport of dangerous goods, including loading and unloading, must be carried out in accordance with regulations by personnel who have received the necessary training;

14.7 Carriage in bulk in accordance with Annex II to MARPOL 73/78 and the IBC code Not applicable to product as supplied.

## SECTION 15: Regulatory information

15.1 Specific safety, health and environmental regulations and legislation for the substance or mixture: REACH - Restrictions on manufacture, placing on the market and the use of certain dangerous substances, preparations and articles (Annex XVII):

Not applicable

REACH - Candidate list of substances of very high concern for authorisation (Article 59):

This product does not contain substances of very high concern (Regulation (EC) No. 1907/2006 (REACH), Article 57).

REACH - List of substances subject to authorisation (Annex XIV):

Not applicable

Regulation (EC) No 649/2012 or the European Parliament and or the Council concerning the export and import of dangerous Chemicals:

Not applicable

Seveso III: Directive 2012/18/EU of the European Parliament and of the Council on the control of major-accident hazards involving dangerous substances.

E2	MILIEUGEAREN	Quantity 1 200 t	Quantity 2 500 t
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### Other regulations:

As for the composition of the product, we deliberately do not add any of the substances indicated in the European Directive 2011/65/EU (RoHS 2, RoHS3 and China RoHS).

The product therefore complies with the said Directives.

Also, no conflict minerals are deliberately added to the product. 15.2

Chemical safety assessment:

According to directive 1907/2006/EC, 2015/830  
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Not applicable.

## SECTION 16: Other information

Items in which relevant changes have been made compared to the previous version are highlighted in the main part of this document by a gray background.

### Full text of the H-declarations

H302: Harmful if swallowed.  
H312: Harmful in contact with skin .  
H314: Causes severe burns and eye injuries.  
H317: May cause an allergic skin reaction.  
H318: Causes serious eye damage.  
H319: Causes severe eye irritation.  
H332: Harmful by inhalation.  
H400: **Very toxic to aquatic organisms.**  
H412: Harmful to aquatic organisms, with long-lasting effects.

### Full text of other abbreviations

Acute Tox.: Acute toxicity  
**Aquatic Acute:** **(Acute) Short-term aquatic hazard**  
Aquatic Chronic: (Chronic) Long-term aquatic hazard  
Eye Dam.: Serious eye injury  
Eye Irrit.: Eye irritation  
Skin Corr.: Skin corrosion/-irritation  
Skin Sens.: Skin sensitization

ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways; ADR - European Agreement on the International Carriage of Dangerous Goods by Road (ADR Agreement); AICS - Australian Inventory of Chemicals; ASTM - American Association for Materials Testing ; bw - Body weight; CLP - Regulation on classification, labelling and packaging; Regulation (EC) No 1272/2008; CMR - Carcinogenic, mutagenic or toxic to reproduction; DIN - Standard of the German Institute for Standardization; DSL - List of indoor used fabrics (Canada); ECHA - European Chemicals Agency ; EC-Number - EINECS number; ECx - Concentration associated with x% response; ELx - Load capacity connected to x% response; EmS - Emergency schedule; ENCS - Existing and new chemicals (Japan); ErCx - Concentration associated with x% growth response; GHS - Global harmonized system; GLP - Good laboratory practice; IARC - International Agency for Research on Cancer; IATA - Association for International Air Transport; IBC - IMO International Code for the Construction and Equipment of Ships Carrying Dangerous Chemicals in Bulk; IC50 - Semimaximal inhibitory concentration; ICAO - International Civil Aviation Organisation; IECS - List of existing chemicals in China; IMDG - International maritime dangerous goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International organization for standardization; KECI - Korean inventory of existing chemicals; LC50 - Lethal concentration for 50% of a test population; LD50 - Lethal dose for 50% of a test population (median lethal dose); MARPOL - International Convention for the Prevention of Pollution from Ships; n.o.s. - Not otherwise specified; NO(A)EC - No discernible (negative) effect on concentration; NO(A)EL - No observable (negative) effect on Level; NOELR - No discernible effect on cargo capacity; NZIoC - New Zealand inventory of chemicals; OECD - Organisation for Economic Cooperation and Development (OECD); OPPTS - Office for Chemical Safety and Pollution Prevention; PBT - Substances which are difficult to degrade, bioaccumulative and toxic; PICCS - Philippine inventory of chemicals and chemicals; (Q)SAR - (Quantitative) structure-activity relationships; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council on the registration, evaluation, authorisation and restriction with regard to

According to directive 1907/2006/EC, 2015/830  
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name: Flexpox hardener

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chemicals (REACH); RID - Regulations concerning the International Carriage of Dangerous Goods by Rail (RID); SADT - Self-accelerating decomposition temperature; SDS - Safety Data Sheet; SVHC - substance of very high concern; TCSI - Taiwanese inventory of chemicals ; TRGS - Technical regulation on dangerous substances; TSCA - Toxic Substances Control Act (USA); UN - United Nations; vPvB - Very difficult to degrade and very bioaccumulative

#### Further information

Training advice: Provide good information, instruction and training for the users.

Text in gray = change from previous version.

#### Classification of the preparation:

Classification procedure:

Acute Tox. 4th	H302.	Calculation
Skin Corr. 1B	H314.	Calculation
Eye Dam. 1	H318.	Calculation
Skin Sens. 1	H317.	Calculation
Aquatic Chronic 2	H411.	method

As far as we know, the information on this safety data sheet is correct on the date of issue indicated. This information is intended solely as a safe handling, use, processing guide, storage, transport, disposal, and release, and should not be considered as a guarantee or indication of quality. The information relates only to the product mentioned herein and is not necessarily valid when it is used together with other products or in any other process. unless this is stated in the text.