

## BETOPOX BREA A

### SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

- 1.1 Product identifier:** BETOPOX BREA A
- 1.2 Relevant identified uses of the substance or mixture and uses advised against:**  
Relevant uses: Hardener for coatings. For professional user/industrial user only.  
Uses advised against: All uses not specified in this section or in section 7.3
- 1.3 Details of the supplier of the safety data sheet:**  
PROPAMSA S.A.U.  
CTRA.N 340, KM 1242,3  
08620 SANT VICENÇ DELS HORTS - BARCELONA - ESPAÑA  
Phone.: +34936806042 -  
Fax: +34936806048  
propamsa@propamsa.es  
www.propamsa.es
- 1.4 Emergency telephone number:** +34.93.680.60.42 (9:00 - 17:00)

### SECTION 2: HAZARDS IDENTIFICATION \*\*

**2.1 Classification of the substance or mixture:**

**CLP Regulation (EC) n° 1272/2008:**

Classification of this product has been carried out in accordance with CLP Regulation (EC) n° 1272/2008.

Acute Tox. 4: Acute toxicity, Category 4, H302+H312

Aquatic Acute 1: Hazardous to the aquatic environment, acute hazard, Category 1, H400

Aquatic Chronic 1: Hazardous to the aquatic environment, long-term hazard, Category 1, H410

Carc. 1B: Carcinogenicity, Category 1B, H350

Eye Dam. 1: Serious eye damage, Category 1, H318

Muta. 1B: Germ cell mutagenicity, Category 1B, H340

Repr. 1B: Reproductive toxicity, Category 1B, H360

Skin Corr. 1B: Skin corrosion, Category 1B, H314

Skin Sens. 1: Sensitisation, skin, Category 1, H317

**2.2 Label elements:**

**CLP Regulation (EC) n° 1272/2008:**

**Danger**



**Hazard statements:**

Acute Tox. 4: H302+H312 - Harmful if swallowed or in contact with skin

Aquatic Chronic 1: H410 - Very toxic to aquatic life with long lasting effects

Carc. 1B: H350 - May cause cancer

Muta. 1B: H340 - May cause genetic defects

Repr. 1B: H360 - May damage fertility or the unborn child

Skin Corr. 1B: H314 - Causes severe skin burns and eye damage

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

**Precautionary statements:**

P280: Wear protective gloves/protective clothing/eye protection/face protection

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

P304+P340: IF INHALED: Remove person to fresh air and keep comfortable for breathing

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

P308+P313: IF exposed or concerned: Get medical advice/attention

P501: Dispose of contents and / or containers in accordance with regulations on hazardous waste or packaging and packaging waste respectively

**Substances that contribute to the classification**

Pitch, coal tar, high-temp; 3-aminomethyl-3,5,5-trimethylcyclohexylamine

**Additional Labelling (Annex XVII, REACH):**

\*\* Changes with regards to the previous version

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### SECTION 2: HAZARDS IDENTIFICATION \*\* (continued)

Restricted to professional users

#### 2.3 Other hazards:

Product contains PBT/vPvB substances: Pitch, coal tar, high-temp

\*\* Changes with regards to the previous version

### SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

#### 3.1 Substance:



Non-applicable

#### 3.2 Mixture:

**Chemical description:** Solution composed of amines

#### Components:

In accordance with Annex II of Regulation (EC) n°1907/2006 (point 3), the product contains:

Identification	Chemical name/Classification		Concentration
CAS: 65996-93-2 EC: 266-028-2 Index: 648-055-00-5 REACH: 01-2119541809-29-XXXX	<b>Pitch, coal tar, high-temp <sup>1</sup></b>	ATP ATP05	<b>25 - &lt;50 %</b>
	Regulation 1272/2008 Aquatic Acute 1: H400; Aquatic Chronic 1: H410; Carc. 1B: H350; Muta. 1B: H340; Repr. 1B: H360 - Danger		
CAS: 2855-13-2 EC: 220-666-8 Index: 612-067-00-9 REACH: 01-2119514687-32-XXXX	<b>3-aminomethyl-3,5,5-trimethylcyclohexylamine <sup>1</sup></b>	ATP CLP00	<b>2,5 - &lt;10 %</b>
	Regulation 1272/2008 Acute Tox. 4: H302+H312; Aquatic Chronic 3: H412; Skin Corr. 1B: H314; Skin Sens. 1: H317 - Danger		

<sup>1</sup> Substances presenting a health or environmental hazard which meet criteria laid down in Regulation (EU) No. 2015/830

To obtain more information on the risk of the substances consult sections 8, 11, 12, 15 and 16.

### SECTION 4: FIRST AID MEASURES

#### 4.1 Description of first aid measures:

Request medical assistance immediately, showing the SDS of this product.

##### By inhalation:

This product does not contain substances classified as hazardous for inhalation, however, in case of symptoms of intoxication remove the person affected from the exposure area and provide with fresh air. Seek medical attention if the symptoms get worse or persist.

##### By skin contact:

Remove contaminated clothing and footwear, rinse skin or shower the person affected if appropriate with plenty of cold water and neutral soap. In serious cases see a doctor. If the product causes burns or freezing, clothing should not be removed as this could worsen the injury caused if it is stuck to the skin. If blisters form on the skin, these should never be burst as this will increase the risk of infection.

##### By eye contact:

Rinse eyes thoroughly with lukewarm water for at least 15 minutes. Do not allow the person affected to rub or close their eyes. If the injured person uses contact lenses, these should be removed unless they are stuck to the eyes, as this could cause further damage. In all cases, after cleaning, a doctor should be consulted as quickly as possible with the SDS of the product.

##### By ingestion/aspiration:

Request immediate medical assistance, showing the SDS of this product. Do not induce vomiting, because its expulsion from the stomach can be hazardous to the mucus of the main digestive tract, and its inhalation, to the respiratory system. Rinse out the mouth and throat, as they may have been affected during ingestion. In the case of loss of consciousness do not administrate anything orally unless supervised by a doctor. Keep the person affected at rest.

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

Acute and delayed effects are indicated in sections 2 and 11.

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

Non-applicable

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### SECTION 5: FIREFIGHTING MEASURES

#### 5.1 Extinguishing media:

Product is non-flammable under normal conditions of storage, manipulation and use. In the case of inflammation as a result of improper manipulation, storage or use preferably use polyvalent powder extinguishers (ABC powder), in accordance with the Regulation on fire protection systems. IT IS NOT RECOMMENDED to use tap water as an extinguishing agent.

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

As a result of combustion or thermal decomposition reactive sub-products are created that can become highly toxic and, consequently, can present a serious health risk.

#### 5.3 Advice for firefighters:

Depending on the magnitude of the fire it may be necessary to use full protective clothing and individual respiratory equipment. Minimum emergency facilities and equipment should be available (fire blankets, portable first aid kit,...) in accordance with Directive 89/654/EC.

#### Additional provisions:

Act in accordance with the Internal Emergency Plan and the Information Sheets on actions to take after an accident or other emergencies. Destroy any source of ignition. In case of fire, refrigerate the storage containers and tanks for products susceptible to inflammation, explosion or BLEVE as a result of high temperatures. Avoid spillage of the products used to extinguish the fire into an aqueous medium.

### SECTION 6: ACCIDENTAL RELEASE MEASURES

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

Isolate leaks provided that there is no additional risk for the people performing this task. Personal protection equipment must be used against potential contact with the spilt product (See section 8). Evacuate the area and keep out those who do not have protection.

#### 6.2 Environmental precautions:

Avoid at all cost any type of spillage into an aqueous medium. Contain the product absorbed appropriately in hermetically sealed containers. Notify the relevant authority in case of exposure to the general public or the environment.

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

It is recommended:

Absorb the spillage using sand or inert absorbent and move it to a safe place. Do not absorb in sawdust or other combustible absorbents. For any concern related to disposal consult section 13.

#### 6.4 Reference to other sections:

See sections 8 and 13.

### SECTION 7: HANDLING AND STORAGE

#### 7.1 Precautions for safe handling:

##### A.- Precautions for safe manipulation

Comply with the current legislation concerning the prevention of industrial risks. Keep containers hermetically sealed. Control spills and residues, destroying them with safe methods (section 6). Avoid leakages from the container. Maintain order and cleanliness where dangerous products are used.

##### B.- Technical recommendations for the prevention of fires and explosions

Product is non-flammable under normal conditions of storage, manipulation and use. It is recommended to transfer at slow speeds to avoid the generation of electrostatic charges that can affect flammable products. Consult section 10 for information on conditions and materials that should be avoided.

##### C.- Technical recommendations to prevent ergonomic and toxicological risks

PREGNANT WOMEN SHOULD NOT BE EXPOSED TO THIS PRODUCT. Transfer in fixed places that comply with the necessary security conditions (emergency showers and eyewash stations in close proximity), using personal protection equipment, especially on the hands and face (See section 8). Limit manual transfers to containers of small amounts. Do not eat or drink during the process, washing hands afterwards with suitable cleaning products.

##### D.- Technical recommendations to prevent environmental risks

Due to the danger of this product for the environment it is recommended to use it within an area containing contamination control barriers in case of spillage, as well as having absorbent material in close proximity.

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

##### A.- Technical measures for storage

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### SECTION 7: HANDLING AND STORAGE (continued)

Minimum Temp.: 5 °C  
Maximum Temp.: 35 °C  
Maximum time: 12 Months

B.- General conditions for storage

Avoid sources of heat, radiation, static electricity and contact with food. For additional information see subsection 10.5

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

Except for the instructions already specified it is not necessary to provide any special recommendation regarding the uses of this product.

### SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

#### 8.1 Control parameters:

Substances whose occupational exposure limits have to be monitored in the work environment

There are no occupational exposure limits for the substances contained in the product

##### DNEL (Workers):

Identification		Short exposure		Long exposure	
		Systemic	Local	Systemic	Local
Pitch, coal tar, high-temp	Oral	Non-applicable	Non-applicable	Non-applicable	Non-applicable
CAS: 65996-93-2	Dermal	Non-applicable	Non-applicable	0,5 mg/kg	Non-applicable
EC: 266-028-2	Inhalation	Non-applicable	Non-applicable	0,00598 mg/m <sup>3</sup>	0,0000016 mg/m <sup>3</sup>

##### DNEL (General population):

Identification		Short exposure		Long exposure	
		Systemic	Local	Systemic	Local
3-aminomethyl-3,5,5-trimethylcyclohexylamine	Oral	Non-applicable	Non-applicable	0,526 mg/kg	Non-applicable
CAS: 2855-13-2	Dermal	Non-applicable	Non-applicable	Non-applicable	Non-applicable
EC: 220-666-8	Inhalation	Non-applicable	Non-applicable	Non-applicable	Non-applicable

##### PNEC:

Identification		Short exposure		Long exposure	
		Systemic	Local	Systemic	Local
Pitch, coal tar, high-temp	STP	Non-applicable	Fresh water	0,00005 mg/L	
CAS: 65996-93-2	Soil	0,047 mg/kg	Marine water	0,000022 mg/L	
EC: 266-028-2	Intermittent	Non-applicable	Sediment (Fresh water)	0,913 mg/kg	
	Oral	0,2 g/kg	Sediment (Marine water)	0,398 mg/kg	
3-aminomethyl-3,5,5-trimethylcyclohexylamine	STP	3,18 mg/L	Fresh water	0,06 mg/L	
CAS: 2855-13-2	Soil	1,121 mg/kg	Marine water	0,006 mg/L	
EC: 220-666-8	Intermittent	0,23 mg/L	Sediment (Fresh water)	5,784 mg/kg	
	Oral	Non-applicable	Sediment (Marine water)	0,578 mg/kg	



#### 8.2 Exposure controls:

A.- General security and hygiene measures in the work place

As a preventative measure it is recommended to use basic Personal Protection Equipment, with the corresponding <<CE marking>> in accordance with Directive 89/686/EC. For more information on Personal Protection Equipment (storage, use, cleaning, maintenance, class of protection,...) consult the information leaflet provided by the manufacturer. For more information see subsection 7.1.

All information contained herein is a recommendation which needs some specification from the labour risk prevention services as it is not known whether the company has additional measures at its disposal.

B.- Respiratory protection



Pictogram	PPE	Labelling	CEN Standard	Remarks
 Mandatory respiratory tract protection	Filter mask for gases and vapours	 CAT III	EN 405:2001+A1:2009	Replace when there is a taste or smell of the contaminant inside the face mask. If the contaminant comes with warnings it is recommended to use isolation equipment.

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### SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION (continued)

#### C.- Specific protection for the hands





Pictogram	PPE	Labelling	CEN Standard	Remarks
 Mandatory hand protection	NON-disposable chemical protective gloves	 CAT III	EN 374-1:2003 EN 374-3:2003/AC:2006 EN 420:2003+A1:2009	The Breakthrough Time indicated by the manufacturer must exceed the period during which the product is being used. Do not use protective creams after the product has come into contact with skin.

As the product is a mixture of several substances, the resistance of the glove material can not be calculated in advance with total reliability and has therefore to be checked prior to the application



#### D.- Ocular and facial protection

Pictogram	PPE	Labelling	CEN Standard	Remarks
 Mandatory face protection	Face mask	 CAT II	EN 166:2001 EN 167:2001 EN 168:2001 EN ISO 4007:2012	Clean daily and disinfect periodically according to the manufacturer's instructions. Use if there is a risk of splashing.

#### E.- Bodily protection

Pictogram	PPE	Labelling	CEN Standard	Remarks
 Mandatory complete body protection	Disposable clothing for protection against chemical risks	 CAT III	EN 13034:2005+A1:2009 EN 168:2001 EN ISO 13982-1:2004/A1:2010 EN ISO 6529:2001 EN ISO 6530:2005 EN 464:1994	For professional use only. Clean periodically according to the manufacturer's instructions.
 Mandatory foot protection	Safety footwear for protection against chemical risk	 CAT III	EN ISO 20345:2011 EN 13832-1:2006	Replace boots at any sign of deterioration.

#### F.- Additional emergency measures

Emergency measure	Standards	Emergency measure	Standards
 Emergency shower	ANSI Z358-1 ISO 3864-1:2002	 Eyewash stations	DIN 12 899 ISO 3864-1:2002

#### Environmental exposure controls:

In accordance with the community legislation for the protection of the environment it is recommended to avoid environmental spillage of both the product and its container. For additional information see subsection 7.1.D

#### Volatile organic compounds:

With regard to Directive 2010/75/EU, this product has the following characteristics:

V.O.C. (Supply): 0 % weight  
V.O.C. density at 20 °C: 0 kg/m<sup>3</sup> (0 g/L)  
Average carbon number: Non-applicable  
Average molecular weight: Non-applicable

With regard to Directive 2004/42/EC, this product which is ready to use has the following characteristics:

V.O.C. density at 20 °C: 0 kg/m<sup>3</sup> (0 g/L)  
EUlimit for the product (Cat. A.J): 500 g/L (2010)  
Components: Non-applicable

### SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

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

\*Not relevant due to the nature of the product, not providing information property of its hazards.

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### SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES (continued)

For complete information see the product datasheet.

#### Appearance:

Physical state at 20 °C:	Liquid
Appearance:	Dense
Colour:	 Black
Odour:	Solvent
Odour threshold:	Non-applicable *

#### Volatility:

Boiling point at atmospheric pressure:	252 °C
Vapour pressure at 20 °C:	0 Pa
Vapour pressure at 50 °C:	11 Pa (0 kPa)
Evaporation rate at 20 °C:	Non-applicable *

#### Product description:

Density at 20 °C:	Non-applicable *
Relative density at 20 °C:	1,5 - 1,8
Dynamic viscosity at 20 °C:	Non-applicable *
Kinematic viscosity at 20 °C:	Non-applicable *
Kinematic viscosity at 40 °C:	Non-applicable *
Concentration:	Non-applicable *
pH:	Non-applicable *
Vapour density at 20 °C:	Non-applicable *
Partition coefficient n-octanol/water 20 °C:	Non-applicable *
Solubility in water at 20 °C:	Non-applicable *
Solubility properties:	Insoluble in water
Decomposition temperature:	Non-applicable *
Melting point/freezing point:	Non-applicable *
Explosive properties:	Non-applicable *
Oxidising properties:	Non-applicable *

#### Flammability:

Flash Point:	Non Flammable (>60 °C)
Flammability (solid, gas):	Non-applicable *
Autoignition temperature:	380 °C
Lower flammability limit:	Non-applicable *
Upper flammability limit:	Non-applicable *

#### Explosive:

Lower explosive limit:	Non-applicable *
Upper explosive limit:	Non-applicable *

#### 9.2 Other information:

Surface tension at 20 °C:	Non-applicable *
Refraction index:	Non-applicable *

\*Not relevant due to the nature of the product, not providing information property of its hazards.

### SECTION 10: STABILITY AND REACTIVITY

#### 10.1 Reactivity:

No hazardous reactions are expected because the product is stable under recommended storage conditions. See section 7.

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### SECTION 10: STABILITY AND REACTIVITY (continued)

#### 10.2 Chemical stability:

Chemically stable under the conditions of storage, handling and use.

#### 10.3 Possibility of hazardous reactions:

Under the specified conditions, hazardous reactions that lead to excessive temperatures or pressure are not expected.

#### 10.4 Conditions to avoid:

Applicable for handling and storage at room temperature:

Shock and friction	Contact with air	Increase in temperature	Sunlight	Humidity
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable

#### 10.5 Incompatible materials:

Acids	Water	Combustive materials	Combustible materials	Others
Avoid strong acids	Not applicable	Precaution	Not applicable	Avoid alkalis or strong bases

#### 10.6 Hazardous decomposition products:

See subsection 10.3, 10.4 and 10.5 to find out the specific decomposition products. Depending on the decomposition conditions, complex mixtures of chemical substances can be released: carbon dioxide (CO<sub>2</sub>), carbon monoxide and other organic compounds.

### SECTION 11: TOXICOLOGICAL INFORMATION

#### 11.1 Information on toxicological effects:

The experimental information related to the toxicological properties of the product itself is not available

##### Dangerous health implications:

In case of exposure that is repetitive, prolonged or at concentrations higher than recommended by the occupational exposure limits, it may result in adverse effects on health depending on the means of exposure:

##### A.- Ingestion (acute effect):

- Acute toxicity : The consumption of a considerable dose can cause irritation in the throat, abdominal pain, nausea and vomiting.
- Corrosivity/Irritability: Corrosive product, its consumption causes burns destroying the full thickness of fabrics. For more information on the secondary effects of contact with the skin see section 2.

##### B- Inhalation (acute effect):

- Acute toxicity : Based on available data, the classification criteria are not met, as it does not contain substances classified as dangerous for inhalation. For more information see section 3.
- Corrosivity/Irritability: Prolonged inhalation of the product is corrosive to mucous membranes and the upper respiratory tract

##### C- Contact with the skin and the eyes (acute effect):

- Contact with the skin: Above all, skin contact may occur as fabrics of all thicknesses can be destroyed, resulting in burns. For more information on the secondary effects see section 2.
- Contact with the eyes: Produces serious eye damage after contact.

##### D- CMR effects (carcinogenicity, mutagenicity and toxicity to reproduction):

- Carcinogenicity: Exposure to this product can cause cancer. For more specific information on the possible health effects see section 2.
- Mutagenicity: Exposure to this product can cause genetic modifications. For more specific information on the possible health effects see section 2.
- Reproductive toxicity: May damage fertility or the unborn child

##### E- Sensitizing effects:

- Respiratory: Based on available data, the classification criteria are not met, as it does not contain substances classified as dangerous with sensitising effects. For more information see section 3.
- Cutaneous: Prolonged contact with the skin can result in episodes of allergic contact dermatitis.

##### F- Specific target organ toxicity (STOT) - single exposure:

Based on available data, the classification criteria are not met, as it does not contain substances classified as dangerous for this effect. For more information see section 3.

##### G- Specific target organ toxicity (STOT)-repeated exposure:

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### SECTION 11: TOXICOLOGICAL INFORMATION (continued)

- Specific target organ toxicity (STOT)-repeated exposure: Based on available data, the classification criteria are not met, as it does not contain substances classified as dangerous for this effect. For more information see section 3.
- Skin: Based on available data, the classification criteria are not met, as it does not contain substances classified as dangerous for this effect. For more information see section 3.

H- Aspiration hazard:

Based on available data, the classification criteria are not met, as it does not contain substances classified as dangerous for this effect. For more information see section 3.

#### Other information:

Non-applicable

#### Specific toxicology information on the substances:

Identification	Acute toxicity	Genus
3-aminomethyl-3,5,5-trimethylcyclohexylamine	LD50 oral	1030 mg/kg
CAS: 2855-13-2	LD50 dermal	1100 mg/kg
EC: 220-666-8	LC50 inhalation	Non-applicable

### SECTION 12: ECOLOGICAL INFORMATION

The experimental information related to the eco-toxicological properties of the product itself is not available

#### 12.1 Toxicity:

Identification	Acute toxicity	Species	Genus
Pitch, coal tar, high-temp	LC50	0.1 - 1 mg/L (96 h)	Fish
CAS: 65996-93-2	EC50	0.1 - 1 mg/L	Crustacean
EC: 266-028-2	EC50	0.1 - 1 mg/L	Algae
3-aminomethyl-3,5,5-trimethylcyclohexylamine	LC50	110 mg/L (96 h)	Leuciscus idus
CAS: 2855-13-2	EC50	388 mg/L (48 h)	N/A
EC: 220-666-8	EC50	Non-applicable	Crustacean

#### 12.2 Persistence and degradability:

Identification	Degradability	Biodegradability
3-aminomethyl-3,5,5-trimethylcyclohexylamine	BOD5	Non-applicable
CAS: 2855-13-2	COD	Non-applicable
EC: 220-666-8	BOD5/COD	Non-applicable
	Concentration	7 mg/L
	Period	28 days
	% Biodegradable	8 %

#### 12.3 Bioaccumulative potential:

Not available

#### 12.4 Mobility in soil:

Identification	Absorption/desorption	Volatility
3-aminomethyl-3,5,5-trimethylcyclohexylamine	Koc	928
CAS: 2855-13-2	Conclusion	Low
EC: 220-666-8	Surface tension	Non-applicable
	Henry	4,46E-4 Pa·m <sup>3</sup> /mol
	Dry soil	No
	Moist soil	No

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

Product contains PBT/vPvB substances: Pitch, coal tar, high-temp

#### 12.6 Other adverse effects:

Not described

### SECTION 13: DISPOSAL CONSIDERATIONS

#### 13.1 Waste treatment methods:

Code	Description	Waste class (Regulation (EU) No 1357/2014)
	It is not possible to assign a specific code, as it depends on the intended use by the user	Dangerous

#### Type of waste (Regulation (EU) No 1357/2014):

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### SECTION 13: DISPOSAL CONSIDERATIONS (continued)

HP14 Ecotoxic, HP8 Corrosive, HP7 Carcinogenic, HP10 Toxic for reproduction, HP11 Mutagenic

#### Waste management (disposal and evaluation):

Consult the authorized waste service manager on the assessment and disposal operations in accordance with Annex 1 and Annex 2 (Directive 2008/98/EC). As under 15 01 (2014/955/EC) of the code and in case the container has been in direct contact with the product, it will be processed the same way as the actual product. Otherwise, it will be processed as non-dangerous residue. We do not recommended disposal down the drain. See paragraph 6.2.

#### Regulations related to waste management:

In accordance with Annex II of Regulation (EC) n°1907/2006 (REACH) the community or state provisions related to waste management are stated

Community legislation: Directive 2008/98/EC, 2014/955/EU, Regulation (EU) No 1357/2014

### SECTION 14: TRANSPORT INFORMATION

#### Transport of dangerous goods by land:

With regard to ADR 2017 and RID 2017:



- |                                                                                 |                                                                                                                                                       |
|---------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>14.1 UN number:</b>                                                          | UN2735                                                                                                                                                |
| <b>14.2 UN proper shipping name:</b>                                            | AMINES, LIQUID, CORROSIVE, N.O.S. or POLYAMINES, LIQUID, CORROSIVE, N.O.S. (3-aminomethyl-3,5,5-trimethylcyclohexylamine; Pitch, coal tar, high-temp) |
| <b>14.3 Transport hazard class(es):</b>                                         | 8                                                                                                                                                     |
| Labels:                                                                         | 8                                                                                                                                                     |
| <b>14.4 Packing group:</b>                                                      | II                                                                                                                                                    |
| <b>14.5 Dangerous for the environment:</b>                                      | Yes                                                                                                                                                   |
| <b>14.6 Special precautions for user</b>                                        |                                                                                                                                                       |
| Special regulations:                                                            | 274                                                                                                                                                   |
| Tunnel restriction code:                                                        | E                                                                                                                                                     |
| Physico-Chemical properties:                                                    | see section 9                                                                                                                                         |
| Limited quantities:                                                             | 1 L                                                                                                                                                   |
| <b>14.7 Transport in bulk according to Annex II of Marpol and the IBC Code:</b> | Non-applicable                                                                                                                                        |

#### Transport of dangerous goods by sea:

With regard to IMDG 38-16:



- |                                                                                 |                                                                                                                                                       |
|---------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>14.1 UN number:</b>                                                          | UN2735                                                                                                                                                |
| <b>14.2 UN proper shipping name:</b>                                            | AMINES, LIQUID, CORROSIVE, N.O.S. or POLYAMINES, LIQUID, CORROSIVE, N.O.S. (3-aminomethyl-3,5,5-trimethylcyclohexylamine; Pitch, coal tar, high-temp) |
| <b>14.3 Transport hazard class(es):</b>                                         | 8                                                                                                                                                     |
| Labels:                                                                         | 8                                                                                                                                                     |
| <b>14.4 Packing group:</b>                                                      | II                                                                                                                                                    |
| <b>14.5 Dangerous for the environment:</b>                                      | Yes                                                                                                                                                   |
| <b>14.6 Special precautions for user</b>                                        |                                                                                                                                                       |
| Special regulations:                                                            | 274                                                                                                                                                   |
| EmS Codes:                                                                      | F-A, S-B                                                                                                                                              |
| Physico-Chemical properties:                                                    | see section 9                                                                                                                                         |
| Limited quantities:                                                             | 1 L                                                                                                                                                   |
| <b>14.7 Transport in bulk according to Annex II of Marpol and the IBC Code:</b> | Non-applicable                                                                                                                                        |

#### Transport of dangerous goods by air:

With regard to IATA/ICAO 2017:

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## BETOPOX BREA A

### SECTION 14: TRANSPORT INFORMATION (continued)



<b>14.1 UN number:</b>	UN2735
<b>14.2 UN proper shipping name:</b>	AMINES, LIQUID, CORROSIVE, N.O.S. or POLYAMINES, LIQUID, CORROSIVE, N.O.S. (3-aminomethyl-3,5,5-trimethylcyclohexylamine; Pitch, coal tar, high-temp)
<b>14.3 Transport hazard class(es):</b>	8
Labels:	8
<b>14.4 Packing group:</b>	II
<b>14.5 Dangerous for the environment:</b>	Yes
<b>14.6 Special precautions for user</b>	
Physico-Chemical properties:	see section 9
<b>14.7 Transport in bulk according to Annex II of Marpol and the IBC Code:</b>	Non-applicable

### SECTION 15: REGULATORY INFORMATION

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

Candidate substances for authorisation under the Regulation (EC) 1907/2006 (REACH): Pitch, coal tar, high-temp

Substances included in Annex XIV of REACH ("Authorisation List") and sunset date: Non-applicable

Regulation (EC) 1005/2009, about substances that deplete the ozone layer: Non-applicable

Article 95, REGULATION (EU) No 528/2012: Non-applicable

REGULATION (EU) No 649/2012, in relation to the import and export of hazardous chemical products: Non-applicable

#### **Limitations to commercialisation and the use of certain dangerous substances and mixtures (Annex XVII REACH, etc ....):**

Product classified hazardous under the CMR. Sale and distribution to the general public is prohibited. Due to its CMR category, it is essential to apply the specific measures for workplace hazard prevention covered in articles 4 and 5 of the 2004/37/EC Directive and later modifications.

Shall not be used in:

- ornamental articles intended to produce light or colour effects by means of different phases, for example in ornamental lamps and ashtrays,
- tricks and jokes,
- games for one or more participants, or any article intended to be used as such, even with ornamental aspects.

#### **Specific provisions in terms of protecting people or the environment:**

It is recommended to use the information included in this safety data sheet as data used in a risk evaluation of the local circumstances in order to establish the necessary risk prevention measures for the manipulation, use, storage and disposal of this product.

#### **Other legislation:**

The product could be affected by sectorial legislation

#### 15.2 Chemical safety assessment:

The supplier has not carried out evaluation of chemical safety.

### SECTION 16: OTHER INFORMATION

#### **Legislation related to safety data sheets:**

This safety data sheet has been designed in accordance with ANNEX II-Guide to the compilation of safety data sheets of Regulation (EC) N° 1907/2006 (Regulation (EC) N° 2015/830)

#### **Modifications related to the previous Safety Data Sheet which concerns the ways of managing risks.:**

CLP Regulation (EC) n° 1272/2008 (SECTION 2, SECTION 16):

- Precautionary statements
- Supplementary information

#### **Texts of the legislative phrases mentioned in section 2:**

- CONTINUED ON NEXT PAGE -

## BETOPOX BREA A

### SECTION 16: OTHER INFORMATION (continued)

H340: May cause genetic defects  
H350: May cause cancer  
H360: May damage fertility or the unborn child  
H400: Very toxic to aquatic life  
H410: Very toxic to aquatic life with long lasting effects  
H318: Causes serious eye damage  
H317: May cause an allergic skin reaction  
H302+H312: Harmful if swallowed or in contact with skin  
H314: Causes severe skin burns and eye damage

#### **Texts of the legislative phrases mentioned in section 3:**

The phrases indicated do not refer to the product itself; they are present merely for informative purposes and refer to the individual components which appear in section 3

#### **CLP Regulation (EC) n° 1272/2008:**

Acute Tox. 4: H302+H312 - Harmful if swallowed or in contact with skin  
Aquatic Acute 1: H400 - Very toxic to aquatic life  
Aquatic Chronic 1: H410 - Very toxic to aquatic life with long lasting effects  
Aquatic Chronic 3: H412 - Harmful to aquatic life with long lasting effects  
Carc. 1B: H350 - May cause cancer  
Muta. 1B: H340 - May cause genetic defects  
Repr. 1B: H360 - May damage fertility or the unborn child  
Skin Corr. 1B: H314 - Causes severe skin burns and eye damage  
Skin Sens. 1: H317 - May cause an allergic skin reaction

#### **Classification procedure:**

Muta. 1B: Calculation method  
Carc. 1B: Calculation method  
Repr. 1B: Calculation method  
Aquatic Acute 1: Calculation method  
Aquatic Chronic 1: Calculation method  
Eye Dam. 1: Calculation method  
Skin Sens. 1: Calculation method  
Acute Tox. 4: Calculation method  
Skin Corr. 1B: Calculation method

#### **Advice related to training:**

Minimal training is recommended to prevent industrial risks for staff using this product, in order to facilitate their comprehension and interpretation of this safety data sheet, as well as the label on the product.

#### **Principal bibliographical sources:**

<http://echa.europa.eu>  
<http://eur-lex.europa.eu>

#### **Abbreviations and acronyms:**

ADR: European agreement concerning the international carriage of dangerous goods by road  
IMDG: International maritime dangerous goods code  
IATA: International Air Transport Association  
ICAO: International Civil Aviation Organisation  
COD: Chemical Oxygen Demand  
BOD5: 5-day biochemical oxygen demand  
BCF: Bioconcentration factor  
LD50: Lethal Dose 50  
LC50: Lethal Concentration 50  
EC50: Effective concentration 50  
Log-POW: Octanol–water partition coefficient  
Koc: Partition coefficient of organic carbon