



**036054 - JAFEPOX-54 RES-IMPR EPOXI(A+B)**



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

- 1.1 Product identifier:** 036054 - JAFEPOX-54 RES-IMPR EPOXI(A+B)
- 1.2 Relevant identified uses of the substance or mixture and uses advised against:**  
Relevant uses: Coating for paving  
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:**  
Productos JAFEP, S.L.  
Carretera de Barrax, s/n  
02630 La Roda - Albacete - Spain  
Phone.: +34 967 44 05 96 -  
Fax: +34 967 44 26 12  
jafep@jafep.com  
www.jafep.com
- 1.4 Emergency telephone number:** +34 967 44 05 96 (9:00 - 14:00 ; 16:00-20:00 )

**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. 3: Acute inhalation toxicity, Category 3, H331

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

Aquatic Chronic 2: Hazardous to the aquatic environment, long-term hazard, Category 2, H411

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

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

**2.2 Label elements:**

**CLP Regulation (EC) n° 1272/2008:**

**Danger**



**Hazard statements:**

Acute Tox. 3: H331 - Toxic if inhaled

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

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

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

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

**Precautionary statements:**

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

P102: Keep out of reach of children

P103: Read label before use

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

P303+P361+P353: IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower

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

P310: Immediately call a POISON CENTER or doctor/physician

P501: Dispose of the contents/containers in accordance with the current legislation on waste treatment

**Supplementary information:**

EUH205: Contains epoxy constituents. May produce an allergic reaction

EUH208: Contains {0}. May produce an allergic reaction

**2.3 Other hazards:**

Non-applicable

**SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS**

**3.1 Substance:**

Non-applicable

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## SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS (continue)

### 3.2 Mixture:

**Chemical description:** Miscellaneous products

#### Components:

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

Identification	Chemical name/Classification	Concentration
CAS: 25068-38-6 EC: 500-033-5 Index: 603-074-00-8 REACH: 01-2119456619-26-XXXX	<b>reaction product: bisphenol-A-(epichlorhydrin) (MW &lt; 700)</b> ATP CLP00	<b>50 - &lt;75 %</b>
	Regulation 1272/2008 Aquatic Chronic 2: H411; Eye Irrit. 2: H319; Skin Irrit. 2: H315; Skin Sens. 1: H317 - Warning	
CAS: 68609-97-2 EC: 271-846-8 Index: 603-103-00-4 REACH: 01-2119485289-22-XXXX	<b>Oxirane, mono[(C12-14-alkyloxy)methyl] derivs</b> ATP CLP00	<b>10 - &lt;25 %</b>
	Regulation 1272/2008 Skin Irrit. 2: H315; Skin Sens. 1: H317 - Warning	
CAS: 100-51-6 EC: 202-859-9 Index: 603-057-00-5 REACH: 01-2119492630-38-XXXX	<b>Benzyl alcohol</b> ATP CLP00	<b>10 - &lt;25 %</b>
	Regulation 1272/2008 Acute Tox. 4: H302+H332 - Warning	
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</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	
CAS: 42751-79-1 EC: Non-applicable Index: Non-applicable REACH: Non-applicable	<b>Aliphatic poliamide</b> Self-classified	<b>2,5 - &lt;10 %</b>
	Regulation 1272/2008 Aquatic Chronic 3: H412	
CAS: 1477-55-0 EC: 216-032-5 Index: Non-applicable REACH: 01-2119480150-50-XXXX	<b>m-phenylenebis(methylamine)</b> Self-classified	<b>2,5 - &lt;10 %</b>
	Regulation 1272/2008 Acute Tox. 4: H302+H332; Aquatic Chronic 3: H412; Skin Corr. 1B: H314; Skin Sens. 1B: H317 - Danger	
CAS: 25154-52-3 EC: 246-672-0 Index: 601-053-00-8 REACH: Non-applicable	<b>Nonylphenol</b> ATP CLP00	<b>&lt;1 %</b>
	Regulation 1272/2008 Acute Tox. 4: H302; Aquatic Acute 1: H400; Aquatic Chronic 1: H410; Repr. 2: H361fd; Skin Corr. 1B: H314 - Danger	

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:

Remove the person affected from the area of exposure, provide with fresh air and keep at rest. In serious cases such as cardiorespiratory failure, artificial resuscitation techniques will be necessary (mouth to mouth resuscitation, cardiac massage, oxygen supply, etc.) requiring immediate medical assistance.

#### 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:

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## SECTION 4: FIRST AID MEASURES (continue)

Non-applicable

## 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

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.

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## SECTION 7: HANDLING AND STORAGE (continue)

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

A.- Technical measures for storage

Minimum Temp.: 5 °C

Maximum Temp.: 30 °C

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 environmental limits for the substances contained in the product

#### DNEL (Workers):

Identification		Short exposure		Long exposure	
		Systemic	Local	Systemic	Local
reaction product: bisphenol-A-(epichlorhydrin) (MW < 700) CAS: 25068-38-6 EC: 500-033-5	Oral	Non-applicable	Non-applicable	Non-applicable	Non-applicable
	Dermal	8,33 mg/kg	Non-applicable	8,33 mg/kg	Non-applicable
	Inhalation	12,25 mg/m³	Non-applicable	12,25 mg/m³	Non-applicable
Oxirane, mono[(C12-14-alkyloxy)methyl] derivs CAS: 68609-97-2 EC: 271-846-8	Oral	Non-applicable	Non-applicable	Non-applicable	Non-applicable
	Dermal	17 mg/kg	Non-applicable	3,9 mg/kg	Non-applicable
	Inhalation	29 mg/m³	9,8 mg/m³	13,8 mg/m³	0,98 mg/m³
Benzyl alcohol CAS: 100-51-6 EC: 202-859-9	Oral	Non-applicable	Non-applicable	Non-applicable	Non-applicable
	Dermal	47 mg/kg	Non-applicable	9,5 mg/kg	Non-applicable
	Inhalation	450 mg/m³	Non-applicable	90 mg/m³	Non-applicable

#### DNEL (General population):

Identification		Short exposure		Long exposure	
		Systemic	Local	Systemic	Local
reaction product: bisphenol-A-(epichlorhydrin) (MW < 700) CAS: 25068-38-6 EC: 500-033-5	Oral	0,75 mg/kg	Non-applicable	0,75 mg/kg	Non-applicable
	Dermal	3,571 mg/kg	Non-applicable	3,571 mg/kg	Non-applicable
	Inhalation	Non-applicable	Non-applicable	Non-applicable	Non-applicable
Oxirane, mono[(C12-14-alkyloxy)methyl] derivs CAS: 68609-97-2 EC: 271-846-8	Oral	1219 mg/kg	Non-applicable	1 mg/kg	Non-applicable
	Dermal	10 mg/kg	Non-applicable	2,35 mg/kg	Non-applicable
	Inhalation	7,6 mg/m³	2,9 mg/m³	4,1 mg/m³	1,46 mg/m³
Benzyl alcohol CAS: 100-51-6 EC: 202-859-9	Oral	25 mg/kg	Non-applicable	5 mg/kg	Non-applicable
	Dermal	28,5 mg/kg	Non-applicable	5,7 mg/kg	Non-applicable
	Inhalation	40,55 mg/m³	Non-applicable	8,11 mg/m³	Non-applicable
3-aminomethyl-3,5,5-trimethylcyclohexylamine CAS: 2855-13-2 EC: 220-666-8	Oral	Non-applicable	Non-applicable	0,526 mg/kg	Non-applicable
	Dermal	Non-applicable	Non-applicable	Non-applicable	Non-applicable
	Inhalation	Non-applicable	Non-applicable	Non-applicable	Non-applicable

#### PNEC:

Identification			
reaction product: bisphenol-A-(epichlorhydrin) (MW < 700) CAS: 25068-38-6 EC: 500-033-5	STP	10 mg/L	Fresh water 0,006 mg/L
	Soil	0,196 mg/kg	Marine water 0,0006 mg/L
	Intermittent	0,018 mg/L	Sediment (Fresh water) 0,996 mg/kg
	Oral	11 g/kg	Sediment (Marine water) 0,0996 mg/kg

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

Identification				
Oxirane, mono[(C12-14-alkyloxy)methyl] derivs CAS: 68609-97-2 EC: 271-846-8	STP	10 mg/L	Fresh water	0,0072 mg/L
	Soil	80,12 mg/kg	Marine water	0,00072 mg/L
	Intermittent	0,072 mg/L	Sediment (Fresh water)	66,77 mg/kg
	Oral	Non-applicable	Sediment (Marine water)	6,677 mg/kg
Benzyl alcohol CAS: 100-51-6 EC: 202-859-9	STP	39 mg/L	Fresh water	1 mg/L
	Soil	0,456 mg/kg	Marine water	0,1 mg/L
	Intermittent	2,3 mg/L	Sediment (Fresh water)	5,27 mg/kg
	Oral	Non-applicable	Sediment (Marine water)	0,527 mg/kg
3-aminomethyl-3,5,5-trimethylcyclohexylamine CAS: 2855-13-2 EC: 220-666-8	STP	3,18 mg/L	Fresh water	0,06 mg/L
	Soil	1,121 mg/kg	Marine water	0,006 mg/L
	Intermittent	0,23 mg/L	Sediment (Fresh water)	5,784 mg/kg
	Oral	Non-applicable	Sediment (Marine water)	0,578 mg/kg
m-phenylenebis(methylamine) CAS: 1477-55-0 EC: 216-032-5	STP	10 mg/L	Fresh water	0,094 mg/L
	Soil	0,045 mg/kg	Marine water	0,0094 mg/L
	Intermittent	0,152 mg/L	Sediment (Fresh water)	0,43 mg/kg
	Oral	Non-applicable	Sediment (Marine water)	0,043 mg/kg



### 8.2 Exposure controls:

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



In accordance with the order of importance to control professional exposure (Directive 98/24/EC) it is recommended to use localized extraction in the work area as a collective protection measure to avoid exceeding the professional exposure limits. In case of using individual protection equipment they should have the 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 additional 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.



#### 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.

#### 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.



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

Pictogram	PPE	Labelling	CEN Standard	Remarks
 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: 297,06 kg/m<sup>3</sup> (297,06 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:

For complete information see the product datasheet.

#### Appearance:

Physical state at 20 °C: Liquid  
Appearance: Not available  
Color: Not available  
Odor: Not available

#### Volatility:

Boiling point at atmospheric pressure: 222 °C  
Vapour pressure at 20 °C: 5 Pa  
Vapour pressure at 50 °C: 61 Pa (0 kPa)  
Evaporation rate at 20 °C: Non-applicable \*

#### Product description:

Density at 20 °C: 1048 kg/m<sup>3</sup>  
Relative density at 20 °C: 1,048  
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 \*

\*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 (continue)

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:	Non-applicable *
Decomposition temperature:	Non-applicable *
Melting point/freezing point:	Non-applicable *

### Flammability:

Flash Point:	Non Flammable (>60 °C)
Autoignition temperature:	370 °C
Lower flammability limit:	Non-applicable *
Upper flammability 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.

### 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
Not applicable	Not applicable	Avoid direct impact	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 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:

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## SECTION 11: TOXICOLOGICAL INFORMATION (continue)

- Acute toxicity: Inhalation after prolonged exposure may be lethal.
- 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:
  - 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: Based on available data, the classification criteria are not met, as it does not contain substances classified as dangerous for the effects mentioned. For more information see section 3.
  - Mutagenicity: 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.
  - Reproductive toxicity: Based on available data, the classification criteria are not met, however it does contain substances classified as dangerous for this effect. For more information see section 3.
- E- Sensitizing effects:
  - Respiratory: Based on available data, the classification criteria are not met, as it does not contain substances classified as dangerous with sensibilising 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)-time 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:
  - 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 CAS: 2855-13-2 EC: 220-666-8	LD50 oral	1030 mg/kg	Rat
	LD50 dermal	1100 mg/kg	
	LC50 inhalation	Non-applicable	
Benzyl alcohol CAS: 100-51-6 EC: 202-859-9	LD50 oral	500 mg/kg	Rat
	LD50 dermal	2500 mg/kg (ATEi)	
	LC50 inhalation	11 mg/L (4 h) (ATEi)	
m-phenylenebis(methylamine) CAS: 1477-55-0 EC: 216-032-5	LD50 oral	1090 mg/kg	Rat
	LD50 dermal	Non-applicable	
	LC50 inhalation	11 mg/L (4 h) (ATEi)	
Nonylphenol CAS: 25154-52-3 EC: 246-672-0	LD50 oral	1600 mg/kg	Rat
	LD50 dermal	2140 mg/kg	Rabbit
	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		Specie	Genus
reaction product: bisphenol-A-(epichlorhydrin) (MW < 700) CAS: 25068-38-6 EC: 500-033-5	LC50	1 - 10 mg/L (96 h)		Fish
	EC50	1 - 10 mg/L		Crustacean
	EC50	1 - 10 mg/L		Algae

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## SECTION 12: ECOLOGICAL INFORMATION (continue)

Identification	Acute toxicity	Specie	Genus
Benzyl alcohol	LC50 646 mg/L (48 h)	Leuciscus idus	Fish
CAS: 100-51-6	EC50 400 mg/L (24 h)	Daphnia magna	Crustacean
EC: 202-859-9	EC50 79 mg/L (3 h)	Scenedesmus subspicatus	Algae
3-aminomethyl-3,5,5-trimethylcyclohexylamine	LC50 110 mg/L (96 h)	Leuciscus idus	Fish
CAS: 2855-13-2	EC50 388 mg/L (48 h)	N/A	Crustacean
EC: 220-666-8	EC50 Non-applicable		
Aliphatic poliamide	LC50 10 - 100 mg/L (96 h)		Fish
CAS: 42751-79-1	EC50 10 - 100 mg/L		Crustacean
EC: Non-applicable	EC50 10 - 100 mg/L		Algae
m-phenylenebis(methylamine)	LC50 88 mg/L (96 h)	Oryzias latipes	Fish
CAS: 1477-55-0	EC50 15 mg/L (48 h)	Daphnia magna	Crustacean
EC: 216-032-5	EC50 20 mg/L (72 h)	Selenastrum capricornutum	Algae
Nonylphenol	LC50 0,135 mg/L (96 h)	Pimephales promelas	Fish
CAS: 25154-52-3	EC50 140 mg/L (48 h)	Daphnia magna	Crustacean
EC: 246-672-0	EC50 1,3 mg/L (72 h)	Scenedesmus subspicatus	Algae

### 12.2 Persistence and degradability:

Identification	Degradability	Biodegradability
reaction product: bisphenol-A-(epichlorhydrin) (MW < 700)	BOD5 Non-applicable	Concentration 100 mg/L
CAS: 25068-38-6	COD Non-applicable	Period 28 days
EC: 500-033-5	BOD5/COD Non-applicable	% Biodegradable 0 %
Benzyl alcohol	BOD5 Non-applicable	Concentration 100 mg/L
CAS: 100-51-6	COD Non-applicable	Period 14 days
EC: 202-859-9	BOD5/COD Non-applicable	% Biodegradable 94 %
3-aminomethyl-3,5,5-trimethylcyclohexylamine	BOD5 Non-applicable	Concentration 7 mg/L
CAS: 2855-13-2	COD Non-applicable	Period 28 days
EC: 220-666-8	BOD5/COD Non-applicable	% Biodegradable 8 %
m-phenylenebis(methylamine)	BOD5 Non-applicable	Concentration 14 mg/L
CAS: 1477-55-0	COD Non-applicable	Period 28 days
EC: 216-032-5	BOD5/COD Non-applicable	% Biodegradable 49 %
Nonylphenol	BOD5 Non-applicable	Concentration 100 mg/L
CAS: 25154-52-3	COD Non-applicable	Period 14 days
EC: 246-672-0	BOD5/COD Non-applicable	% Biodegradable 0 %

### 12.3 Bioaccumulative potential:

Identification	Bioaccumulation potential
reaction product: bisphenol-A-(epichlorhydrin) (MW < 700)	BCF 4
CAS: 25068-38-6	Pow Log 2,8
EC: 500-033-5	Potential Low
Benzyl alcohol	BCF 0,3
CAS: 100-51-6	Pow Log 1,1
EC: 202-859-9	Potential Low
m-phenylenebis(methylamine)	BCF 3
CAS: 1477-55-0	Pow Log 0,18
EC: 216-032-5	Potential Low
Nonylphenol	BCF 90
CAS: 25154-52-3	Pow Log 4,77
EC: 246-672-0	Potential Moderate

### 12.4 Mobility in soil:

Identification	Absorption/desorption	Volatility
Benzyl alcohol	Koc Non-applicable	Henry Non-applicable
CAS: 100-51-6	Conclusion Non-applicable	Dry soil Non-applicable
EC: 202-859-9	Surface tension 36790 N/m (25 °C)	Moist soil Non-applicable

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## SECTION 12: ECOLOGICAL INFORMATION (continue)

Identification	Absorption/desorption		Volatility	
3-aminomethyl-3,5,5-trimethylcyclohexylamine	Koc	928	Henry	4,46E-4 Pa·m <sup>3</sup> /mol
CAS: 2855-13-2	Conclusion	Low	Dry soil	No
EC: 220-666-8	Surface tension	Non-applicable	Moist soil	No
m-phenylenebis(methylamine)	Koc	1300	Henry	Non-applicable
CAS: 1477-55-0	Conclusion	Low	Dry soil	Non-applicable
EC: 216-032-5	Surface tension	Non-applicable	Moist soil	Non-applicable
Nonylphenol	Koc	Non-applicable	Henry	Non-applicable
CAS: 25154-52-3	Conclusion	Non-applicable	Dry soil	Non-applicable
EC: 246-672-0	Surface tension	32960 N/m (25 °C)	Moist soil	Non-applicable

### 12.5 Results of PBT and vPvB assessment:

Non-applicable

### 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)
08 01 11*	Waste paint and varnish containing organic solvents or other dangerous substances	Dangerous

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

HP14 Ecotoxic, HP4 Irritant — skin irritation and eye damage, HP6 Acute Toxicity, HP8 Corrosive, HP13 Sensitising

#### 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 2015 and RID 2015:



- 14.1 UN number:** UN2922
- 14.2 UN proper shipping name:** CORROSIVE LIQUID, TOXIC, N.O.S. (3-aminomethyl-3,5,5-trimethylcyclohexylamine)
- 14.3 Transport hazard class(es):** 8
- Labels:** 8, 6.1
- 14.4 Packing group:** II
- 14.5 Dangerous for the environment:** Yes
- 14.6 Special precautions for user**
- Special regulations: 274
- Tunnel restriction code: E
- Physico-Chemical properties: see section 9
- Limited quantities: 1 L
- 14.7 Transport in bulk according to Annex II of Marpol and the IBC Code:** Non-applicable

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## SECTION 14: TRANSPORT INFORMATION (continue)

### Transport of dangerous goods by sea:

With regard to IMDG 37-14:



- |   |  |
|---|--|
| <b>14.1 UN number:</b>  | UN2922   |
| <b>14.2 UN proper shipping name:</b>  | CORROSIVE LIQUID, TOXIC, N.O.S. (3-aminomethyl-3,5,5-trimethylcyclohexylamine) |
| <b>14.3 Transport hazard class(es):</b>   | 8  |
| Labels:   | 8, 6.1   |
| <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, 944   |
| 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 2015:



- |   |  |
|---|--|
| <b>14.1 UN number:</b>  | UN2922   |
| <b>14.2 UN proper shipping name:</b>  | CORROSIVE LIQUID, TOXIC, N.O.S. (3-aminomethyl-3,5,5-trimethylcyclohexylamine) |
| <b>14.3 Transport hazard class(es):</b>   | 8  |
| Labels:   | 8, 6.1   |
| <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): Nonylphenol

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):**



## SECTION 15: REGULATORY INFORMATION (continue)

Contains more than 0,1 % of Nonylphenol by weight. Shall not be placed on the market, or used, as substances or in mixtures in concentrations equal to or greater than 0,1 % by weight for the following purposes:

(1) industrial and institutional cleaning except:

- controlled closed dry cleaning systems where the washing liquid is recycled or incinerated,
- cleaning systems with special treatment where the washing liquid is recycled or incinerated.

(2) domestic cleaning;

(3) textiles and leather processing except:

- processing with no release into waste water,
- systems with special treatment where the process water is pre-treated to remove the organic fraction completely prior to biological waste water treatment (degreasing of sheepskin);

(4) emulsifier in agricultural teat dips;

(5) metal working except:

uses in controlled closed systems where the washing liquid is recycled or incinerated;

(6) manufacturing of pulp and paper;

(7) cosmetic products;

(8) other personal care products except:  
spermicides;

(9) co-formulants in pesticides and biocides. However national authorisations for pesticides or biocidal products containing nonylphenol ethoxylates as co-formulant, granted before 17 July 2003, shall not be affected by this restriction until their date of expiry.

### 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 (EU) N° 453/2010, Regulation (EC) N° 2015/830)

### Modifications related to the previous security card which concerns the ways of managing risks. :

CLP Regulation (EC) n° 1272/2008:

- Hazard statements

Content of the 3rd section presenting modifications:

- Aliphatic polyamide (42751-79-1): R Phrases, Hazard statements
- m-phenylenebis(methylamine) (1477-55-0): R Phrases, Hazard statements
- Nonylphenol (25154-52-3): Candidate substances for authorisation under the Regulation (EC) 1907/2006 (REACH)

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

H331: Toxic if inhaled

H314: Causes severe skin burns and eye damage

H411: Toxic to aquatic life with long lasting effects

H317: May cause an allergic skin reaction

H302+H312: Harmful if swallowed or in contact with skin

### 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:



## SECTION 16: OTHER INFORMATION (continue)

Acute Tox. 4: H302 - Harmful if swallowed  
Acute Tox. 4: H302+H312 - Harmful if swallowed or in contact with skin  
Acute Tox. 4: H302+H332 - Harmful if swallowed or if inhaled  
Aquatic Acute 1: H400 - Very toxic to aquatic life  
Aquatic Chronic 1: H410 - Very toxic to aquatic life with long lasting effects  
Aquatic Chronic 2: H411 - Toxic to aquatic life with long lasting effects  
Aquatic Chronic 3: H412 - Harmful to aquatic life with long lasting effects  
Eye Irrit. 2: H319 - Causes serious eye irritation  
Repr. 2: H361fd - Suspected of damaging fertility. Suspected of damaging the unborn child.  
Skin Corr. 1B: H314 - Causes severe skin burns and eye damage  
Skin Irrit. 2: H315 - Causes skin irritation  
Skin Sens. 1: H317 - May cause an allergic skin reaction  
Skin Sens. 1B: H317 - May cause an allergic skin reaction

### Advice related to training:

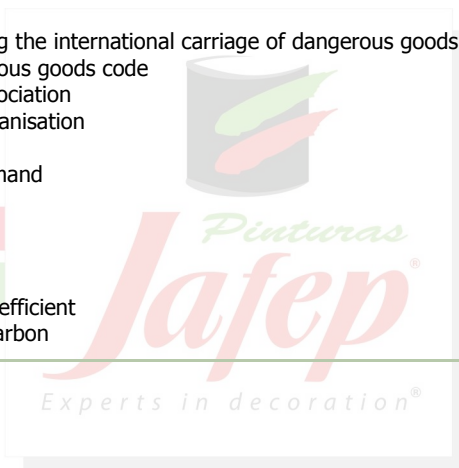
Minimal training is recommended to prevent industrial risks for staff using this product, in order to facilitate their comprehension and interpretation of this safety data sheet, as well as the label on the product.

### Principal bibliographical sources:

<http://esis.jrc.ec.europa.eu>  
<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  
CL50: Lethal Concentration 50  
EC50: Effective concentration 50  
Log-POW: Octanol–water partition coefficient  
Koc: Partition coefficient of organic carbon



The information contained in this safety data sheet is based on sources, technical knowledge and current legislation at European and state level, without being able to guarantee its accuracy. This information cannot be considered a guarantee of the properties of the product, it is simply a description of the security requirements. The occupational methodology and conditions for users of this product are not within our awareness or control, and it is ultimately the responsibility of the user to take the necessary measures to obtain the legal requirements concerning the manipulation, storage, use and disposal of chemical products. The information on this safety data sheet only refers to this product, which should not be used for needs other than those specified.

- END OF SAFETY DATA SHEET -