

'CEMENT DESIGN - EPOPRIMER-A- EPP 2K A 2



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

**1.1 Product identifier:** EPOPRIMER-A- EPP 2K A 2 (Comp. A)

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

Relevant uses: Resin in solution. Exclusive use for professional user/industrial user.

Uses advised against: Any use not specified in this section or in section 7.3

**1.1 Details of the supplier of the safety data sheet:**

CEMENT DESIGN  
Camino del avenida 2 5/N 40.03717,-3.8179779, 45290  
Pantoja, Toledo España  
Tfno.: [911 40 79 66](tel:911407966)  
[info@cement-design.com](mailto:info@cement-design.com)  
[www.cement-design.com](http://www.cement-design.com)

**1.1 Emergency telephone number:** 90111 69 12 (Opening hours: 08:30 - 13:30 and 16:00 - 19:00)

Classification of the substance or mixture: Regulation n°1272/2008 (CLP):

Aquatic Chronic 2: Chronic hazard to the aquatic environment, Category 2, H411

Eye Irrit. 2: Eye irritation, category 2, H319

mutates. 2: Germ cell mutagenicity, Category 2, H341

Skin Irrit. 2: Skin irritation, category 2, H315

Skin Sens. 1: Skin Sensitization, Category 1, H317

**2.1 Label elements:**

**Regulation n°1272/2008 (CLP):**

Atención



**Hazard Statements:**

Toxic to aquatic life with long lasting effects Causes serious eye irritation

Suspected of causing genetic defects Causes skin irritation

May produce an allergic reaction on the skin

**Precautionary advice:**

Ask for special instructions before use

Avoid breathing dust/fume/gas/mist/vapors/spray Avoid release to the environment

Wear protective gloves/clothing/glasses/mask

IN CASE OF overt or suspected exposure: Consult a physician. In

case of skin irritation or rash: Consult a physician.

**Supplementary information:**

Contains epoxy components. May produce an allergic reaction

**Substances contributing to the classification**

[(p-tolyloxy)methyl]oxirane; Bisphenol A-epichlorohydrin reaction products (MW < 700)

**2.2 Other hazards:**

Not relevant

SECCIÓN 3: COMPOSICIÓN/INFORMACIÓN SOBRE LOS COMPONENTES

**3.1 Substance:**



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

Not applicable

#### 3.2 Mixture:

Chemical **description**: Mixture of substances

Components:

Description / Descripción	Composition as a percentage / Composición en porcentaje	Nº CAS
EPP-2K-A-2 EPOPRIMER A 2K 2 KG (Comp-A)	Bisfenol A epichlorohydrin - 80%	25068-38-6
	[P-toliloxi(me-Cil)]oxirano - 20%	2210-79-9

For more information on the dangerousness of the substances, see sections 8, 11, 12, 15 and 16.

## MH1ta14: FISR TAID

#### 4.1 Description of first aid:

Symptoms as a consequence of poisoning may appear after exposure, therefore, in case of doubt, direct exposure to the chemical product or persistence of discomfort, seek medical attention, showing the /1SOS of this product.

By inhalation:

It is a product that does not contain substances classified as dangerous by inhalation, however, in case of symptoms of poisoning, remove the person affected from the exposure area and provide fresh air. Seek medical attention if symptoms worsen or persist.

By contact with the skin:

Remove contaminated clothing and shoes, rinse the skin or shower the person affected, if necessary, with plenty of cold water and neutral soap. In case of significant condition, see a doctor. If the product causes burns or frostbite, clothing should not be removed as it could worsen the injury if it sticks to the skin. In the case of forming blisters on the skin, they should never be burst as this would increase the risk of infection.

By eye contact:

Flush eyes with plenty of room temperature water for at least 15 minutes. Prevent the affected person from rubbing or closing their eyes. In the event that the injured person wears contact lenses, they must be removed as long as they are not stuck to the eyes, otherwise additional damage could occur. In all cases, after washing, you should see a doctor as quickly as possible with the SOS of the product..

By ingestion/aspiration:

Do not induce vomiting, in the event that it occurs, keep the head tilted forward to avoid aspiration. Keep the patient at rest. Rinse the mouth and throat, as there is a possibility that they have been affected by ingestion.

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

Acute and delayed effects are as indicated in sections 2 and II

#### 4.3 Indication of any medical attention and special treatment that must be given immediately:

Not relevant

## MH1ta15: FIRE FIGHTING MEASURES

#### 5.1 Extinguishing media:

Non-flammable product under normal conditions of storage, handling and use. In case of inflammation as a consequence of improper handling, storage or use, preferably use polyvalent powder extinguishers (ABC powder), in accordance with the Regulation of fire protection installations (R.D. 1942/1993 and subsequent modifications). IT IS NOT RECOMMENDED to use jet water as an extinguishing agent.

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

As a consequence of combustion or thermal decomposition, reaction by-products are generated that can be highly toxic and, consequently, can present a high risk to health.

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## SECTION 5: FIRE-FIGHTING MEASURES (continued)

### 5.3 Recommendations for fire fighting personnel:

Depending on the magnitude of the fire, the use of full protective clothing and self-contained breathing apparatus may be necessary. Have a minimum of emergency facilities or action elements (fire blankets, portable first aid kit,...) in accordance with R.D.486/1997 and subsequent amendments

#### Additional provisions:

Act in accordance with the Internal Emergency Plan and the Information Sheets on action in the event of accidents and other emergencies. Remove any source of ignition. In case of fire, refrigerate containers and storage tanks for products susceptible to inflammation, explosion or BLEVE as a result of high temperatures. Avoid spilling the products used to extinguish the fire into the aquatic environment.

## SECTION 6: ACCIDENTAL RELEASE MEASURES

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

Isolate leaks as long as they do not pose an additional risk to the people who carry out this function. Given the potential exposure with the spilled product, the use of personal protection elements is mandatory (see section 8). Evacuate area and keep unprotected people away.

### 6.2 Environmental precautions:

Avoid at all costs any type of discharge into the aquatic environment. Adequately contain the absorbed/collected product in hermetically sealable containers. Notify the competent 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 spill using sand or inert absorbent and transfer it to a safe place. Do not absorb in sawdust or other combustible absorbents. For any disposal considerations see section 13.

### 6.4 References to other sections:

See sections 8 and 13.

## SECTION 7: MANIPULATION AND STORAGE

### 7.1 Precautions for safe handling:

#### A.- General precautions

Comply with current legislation on occupational risk prevention. Keep containers tightly closed. Control spills and residues, disposing of them by safe methods (section 6). Avoid free spillage from the container. Maintain order and cleanliness where dangerous products are handled.

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

Non-flammable product under normal conditions of storage, handling and use. It is recommended to transfer at slow speeds to avoid the generation of electrostatic charges that could affect flammable products. See section 10 for conditions and materials to avoid.

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

For exposure control see section 8. Do not eat, drink or smoke in work areas; wash hands after each use; and remove contaminated clothing and protective equipment before entering eating areas.

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

Due to the danger of this product for the environment, it is recommended to handle it within an area that has pollution control barriers in case of spillage, as well as to have absorbent material in the vicinity of it

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

#### A.- Technical storage measures

ITC (R.D.379/2001): MIE-APQ-1

Clasificación: D

T9 mfn: 5 °C

T9 max: 25 °C

#### B.- General storage conditions.



## SECTION 7: HANDLING AND STORAGE (continued)

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

### 7.3 Specific end uses:

Except for the indications already specified, it is not necessary to make any special recommendations regarding the uses of this product.

## SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

### 8.1 Control parameters:

Substances whose occupational exposure limit values must be controlled in the work environment (INSHT 2015):

There are no environmental limit values for the substances that make up the product.

#### DNEL (Workers):

Identification		Short exposure		Long exposure	
		Sistemic	Local	Sistemic	Local
Bisphenol A-epichlorohydrin reaction products (MW < 700) CAS: 25068-38-6 CE: 500-033-5	Oral	Not relevant	Not relevant	Not relevant	Not relevant
	Cutaneous	8,33 mg/kg	Not relevant	8,33 mg/kg	Not relevant
	Inhalation	12,25 mg/m3	Not relevant	12,25 mg/m3	Not relevant
[(p-toliloxi)metil]oxirano CAS: 2210-79-9 CE: 218-645-3	Oral	No relevante	Not relevant	Not relevant	Not relevant
	Cutaneous	No relevante	Not relevant	0,139 mg/kg	Not relevant
	Inhalation	40 mg/m3	40 mg/m3	0,46 mg/m3	0,46 mg/m3

#### DNEL (Population):

Identification		Carta exposici6n		Larga exposici6n	
		Sistemica	Local	Sistemica	Local
Bisphenol A-epichlorohydrin reaction products (MW < 700) CAS: 25068-38-6 CE: 500-033-5	Oral	0,75 mg/kg	Not relevant	0,75 mg/kg	Not relevant
	Cutaneous	3,571 mg/kg	Not relevant	3,571 mg/kg	Not relevant
	Inhalation	Not relevant	Not relevant	No relevante	Not relevant
[(p-toliloxi)metil]oxirano CAS: 2210-79-9 CE: 218-645-3	Oral	Not relevant	Not relevant	0,14 mg/kg	Not relevant
	Cutaneous	Not relevant	Not relevant	Not relevant	Not relevant
	Inhalation	Not relevant	Not relevant	Not relevant	Not relevant

#### PNEC:

Identification				
Bisphenol A-epichlorohydrin reaction products (MW < 700) CAS: 25068-38-6 CE: 500-033-5	STP	10 mg/L	Sweet water	0,006 mg/L
	Bottom	0,196 mg/kg	Saltwater	0,0006 mg/L
	Intermittent	0,018 mg/L	Sediment (Sweet water)	0,996 mg/kg
	Oral	11 g/kg	Sediment (Saltwater)	0,0996 mg/kg
[(p-toliloxi)metil]oxirano CAS: 2210-79-9 CE: 218-645-3	STP	10 mg/L	Sweet water	0,0028 mg/L
	Bottom	0,012 mg/kg	Saltwater	0,00028 mg/L
	Intermittent	0,028 mg/L	Sediment (Sweet water)	0,039 mg/kg
	Oral	No relevante	Sediment (Saltwater)	0,0039 mg/kg

### 8.2 Exposure controls:

A.- General safety and hygiene measures in the work environment:

As a preventive measure, the use of basic individual protection equipment is recommended, with the corresponding "CE marking" according to R.D.1407/1992 and subsequent modifications. For more information on personal protective equipment (storage, use cleaning, maintenance, protection class,...) consult the information brochure provided by the PPE manufacturer. The indications contained in this point refer to the pure product. The protection measures for the diluted product may vary depending on its degree of dilution, use, application method, etc. To determine the obligation to install emergency showers and/or eyewash stations in warehouses, the regulations regarding the storage of chemical products applicable in each case will be taken into account. For more information see sections 7.1 and 7.2.

All the information included here is a recommendation, and it is necessary for the occupational risk prevention services to specify it since they are unaware of the additional prevention measures that the company may have.

B.- Respiratory protection.

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## SECCION 8: CONTROLES DE EXPOSICION/PROTECCION INDIVIDUAL (continua)

Pictogram	EPI	Marcado	Norms CEN	Observations
 Mandatory protection of the respiratory tract	Filtering mask for gases and vapors	<b>CE</b> <b>CAT III</b>	EN 405:2001+AI:2009	Replace when the odor or taste of the contaminant is detected inside the mask or facepiece. When the contaminant does not have good warning properties, the use of insulating equipment is recommended.

### C.- Specific protection of hands.

Pictogram	EPI	Marcado	Norms CEN	Observations
 Mandatory hand protection	Non-disposable chemical protection gloves	<b>CE</b> <b>CAT III</b>	EN 374-1:2003 EN 374-3:2003/AC:2006 EN 420:2003+AI:2009	The breakthrough time (Breakthrough Time) indicated by the manufacturer must be greater than the time of use of the product. Do not use protective creams after contact of the product with the skin.

Since this product is a mixture of different materials, the resistance of the glove material cannot be calculated in advance with complete reliability and therefore has to be checked before application.

### D.- Face and face protection

Pictogram	EPI	Marcado	Norms CEN	Observations
 Mandatory face protection	Face shield	<b>CE</b> <b>CAT II</b>	EN 166:2001 EN 167:2001 EN 168:2001  EN ISO 4007:2012	Clean daily and disinfect periodically according to the manufacturer's instructions. Its use is recommended in case of risk of splashes.

### E.- Body protection

Pictogram	EPI	Marcado	Norms CEN	Observations
 Mandatory body protection	Protective garment against chemical risks	<b>CE</b> <b>CAT III</b>	EN 13034:2005+AI:2009 EN 168:2001 EN ISO 13982-1:2004/Al:2010 EN ISO 6529:2001 EN ISO 6530:2005 EN 464:1994	Exclusive use at work. Clean periodically according to the manufacturer's instructions.
 Mandatory foot protection	Safety footwear against chemical risk	<b>CE</b> <b>CAT III</b>	EN ISO 20345:2011 EN 13832-1:2006	Replace boots at any sign of deterioration.

### F.- Complementary emergency measures

Emergency measure	Norms	Emergency measure	Norms
 Emergency shower	ANSI Z358-1 ISO 3864-1:2002	 Lavajos	DIN 12 899 ISO 3864-1:2002

### Environmental exposure controls:

Under community environmental protection legislation, it is recommended to avoid dumping both the product and its packaging into the environment. For additional information see section 7.1.D

## SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

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

To complete the information, see the technical data sheet/product specification sheet.

#### Physical appearance:

Physical state at 20°C: Liquid  
Appearance: Undetermined  
Color: Yellowish

\* It is recommended to use the product in a well-ventilated area. It is recommended to use the product in a well-ventilated area.



Smell:	Leve
Olfactory threshold:	Not relevant*
<b>Volatility:</b>	
Boiling point at atmospheric pressure:	Not relevant *
Vapor pressure at 50°C:	500 Pa (0 kPa)
Evaporation rate at 20 °e:	Not relevant*

**Product characterization:**

Density at 20 °c:	Not relevant *
Density relative to 20 °e:	1,11 - 1,16
Dynamic viscosity at 20 °c:	500 - 700 cP
Kinematic viscosity at 20 °c:	Not relevant *
Kinematic viscosity a 40 °e:	Not relevant *
Concentration:	Not relevant *
pH:	Not relevant *
Vapor density at 20 °c:	Not relevant *
Partition coefficient n-octanol/water at 20 °c:	Not relevant *
Solubility in water at 20°C:	Not relevant *
Solubility property:	Slightly soluble
Decomposition temperature:	Not relevant *
Melting point/freezing point:	Not relevant *
Explosive properties:	Not relevant *
Oxidising properties:	Not relevant *

**Inflammability:**

Flashpoint :	121 °c
Flammability (solid, gas):	Not relevant *
Auto-ignition temperature:	Not relevant *
Lower flammability limit:	Not relevant *
Upper flammability limit:	Not relevant *

**9.2 Other data:**

Surface tension at 20 °e:	Not relevant *
Refractive index:	Not relevant *

\*No relevante debido a la naturaleza del producto, no aportando información característica de su peligrosidad.

**SECTION 10: STABILITY AND REACTIVITY**

**10.1 Reactivity:**

Dangerous reactions are not expected if the technical instructions for storage of chemicals are followed. See epigraph 7.

**10.2 Chemical stability:**

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

**10.3 Possibility of hazardous reactions:**

Under the indicated conditions, dangerous reactions that can produce excessive pressure or temperatures are not expected.

**10.4 Conditions to avoid:**

Applicable for handling and storage at room temperature:

Shock and friction	Contact with air	Heating	Sunlight	Humidity
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable

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#### 10.5 Incompatible materials:

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

#### 10.6 Hazardous decomposition products:

See section 10.3, 10.4 and 10.5 to know the decomposition products specifically. Depending on the decomposition conditions, complex mixtures of chemicals can be released as a result of decomposition: carbon dioxide (CO<sub>2</sub>), carbon monoxide and other organic compounds..

### SECTION 11: TOXICOLOGICAL INFORMACION

#### 11.1 Information on toxicological effects:

There are no experimental data available on the product itself regarding the toxicological properties.

##### Dangerous effects for health:

In case of repetitive or prolonged exposure or at concentrations higher than those established by the occupational exposure limits, adverse health effects may occur depending on the route of exposure:

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

- Acute toxicity: In view of the available data, the classification criteria are not met, as it does not contain substances classified as dangerous if swallowed. For more information see section 3.
- Corrosivity/Irritability: Ingestion of a considerable dose can cause throat irritation, abdominal pain, nausea and vomiting.

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

- Acute toxicity: In view of the available data, the classification criteria are not met, as it does not contain substances classified as dangerous by inhalation. For more information see section 3.
- Corrosivity/Irritability: In view of the 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.

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

- Skin contact: Produces skin inflammation.
- Contact with eyes: Produces eye injuries after contact.

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

- Carcinogenicity: In view of the available data, the classification criteria are not met, as it does not contain substances classified as dangerous due to the effects described. For more information see section 3..
- Mutagenicity: Exposure to this product may cause genetic alterations. For more information on possible specific health effects see section 2
- Reproductive toxicity: In view of the 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

##### E- Sensitization effects:

- Respiratory: In view of the available data, the classification criteria are not met, as it does not contain substances classified as dangerous with sensitizing effects above the limits included in point 3.2 of Regulation (EC) 2015/830. For more information see sections 2, 3 and 15.
- Cutaneous: Prolonged contact with the skin can lead to episodes of allergic contact dermatitis..

##### F- Specific Target Organ Toxicity (STOT)-Single Exposure:

- In view of the 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 toxicity in certain organs (STOT)-repeated exposure: In view of the 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: In view of the 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:

- In view of the 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.

##### Additional Information:

Not relevant

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Substanc:EH;pecific toxicological information:





## SECTION 11: TOXICOLOGICAL INFORMATION (continued)

Identification	Acute toxicity		Gender
[(p-toliloxi)metil]oxirano	DI50 oral	4000 mg/kg	Rata
CAS: 2210-79-9	DI50 cutaneous	Not relevant	
CE: 218-645-3	CI50 inhalation	Not relevant	

## SECTION 12: ECOLOGICAL INFORMATION

There are no experimental data available on the mixture itself regarding the ecotoxicological properties.

### 12.1 Toxicity:

Identification		Acute toxicity	Species	Gender
Bisphenol A-epichlorohydrin reaction products (MW < 700) CAS: 25068-38-6 CE: 500-033-5	CL50	1 - 10 mg/L (96 h)		Fish
	CE50	1 - 10 mg/L		Shellfish
		1 - 10 mg/L		Alga
[(p-toliloxi)metil]oxirano CAS: 2210-79-9 CE: 218-645-3	CE50	1 - 10 mg/L (96 h)		Fish
	CL50	1 - 10 mg/L		Shellfish
	CE50	1 - 10 mg/L		Alga

### 12.2 Persistence and degradability:

Identification	Degradability		Biodegradability	
Bisphenol A-epichlorohydrin reaction products (MW < 700) CAS: 25068-38-6 CE: 500-033-5	DBO5	Not relevant	Concentration	100 mg/L
	DQO	Not relevant	Period	28 days
	DBO5/DQO	Not relevant	% Biodegraded	0%

### 12.3 Bioaccumulative potential

Identification	Bioaccumulative potential	
Bisphenol A-epichlorohydrin reaction products (MW < 700) CAS: 25068-38-6 CE: 500-033-5	BCF	4
	Log POW	2,8
	Potential	Low

### 12.4 Mobility in soil:

Undetermined

### 12.5 Assessment results PBT y mPmB:

Non applicable

### 12.6 Other Adverse Effects:

Not described

## SECTION 13: DISPOSAL CONSIDERATIONS

### 13.1 Waste treatment methods

C6de	Description	Type of waste (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, HP13 Sensitizing, HP11 Mutagen

#### Waste management (elimination and recovery):

Consult the authorized waste manager for recovery and disposal operations in accordance with Annex 1 and Annex 2 (Directive 2008/98/CE, Law 22/2011). In accordance with codes 15 01 (2014/955/UE), in the event that the container has been in direct contact with the product, it will be managed in the same way as the product itself, otherwise it will be managed as non-hazardous waste. Discharging into watercourses is not recommended. See section 6.2.

#### Legislative provisions related to waste management:

According to Annex II of Regulation (EC) No. 1907/2006 (REACH) the community or state provisions related to waste management are collected.

Community legislation: Directive 2008/98/CE, 2014/955/UE, Regulation (UE) n° 1357/2014 National legislation: Law 22/2011

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## SECTION 14: INFORMATION REGARDING TRANSPORTATION

Land transport of dangerous goods:

In application to ADR 2015 and RID 2015:

14.1	Number ONU:	UN3082
14.2	UN proper shipping name:	ENVIRONMENTALLY HAZARDOUS LIQUID SUBSTANCE, N.O.S. (Reaction products of bisphenol A-epichlorohydrin (MW < 700))
14.3	Transport hazard class(es):	9
	Tags:	III
14.4	Packing group:	Yes
14.5	Environmental Hazards:	
14.6	Special precautions for users	
	Special provisions:	274, 335, 375, 601
	Tunnel restriction code:	E
	Physicochemical properties:	see epigraph 9
	limited quantities:	5L
14.7	Transport in bulk according to Annex II of the Marpol 73/78 Convention and the IBC Code:	Not relevant

Maritime transport of dangerous goods:

In application to IMDG 37-14:

14.1	Number ONU:	UN3082
14.2	UN proper shipping name:	ENVIRONMENTALLY HAZARDOUS LIQUID SUBSTANCE, N.O.S.
	<b>Transport hazard</b>	
	class(es):	(Reaction products of bisphenol A-epichlorohydrin (MW < 700))9
14.3	Tags:	9
	Packing group:	III
14.4	Dangers for the environment:	Si
14.5		
14.6	Special precautions for users	
	special provisions:	274, 909
	Codes FEM:	F-A, S-F
	Physicochemical properties:	See epigraph 9
	limited quantities:	5 L
14.7	Transport in bulk according to Annex II of the Marpol 73/78 Convention and the IBC Code:	Not relevant

Air transport of dangerous goods:

In application to IATA/OACI 2015:

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## SECTION 14: TRANSPORT INFORMATION (continued)

14.1	Number ONU:	UN3082
14.2	UN proper shipping name	ENVIRONMENTALLY HAZARIOUS LIQUID SUBSTANCE, N.O.S. (Reaction products of bisphenol A-epichlorohydrin (MW < 700))
14.3	Transport hazard class(es):	9
	Etiquetas:	9
14.4	Packing group:	III
14.5	Environmental Hazards:	Yc
14.6	Special precautions for users	
	Physicochemical properties:	epigraph9
14.7	Transport in bulk according to annex II of the Marpol Convention 73/78 and the	Not relevant

## MHit@ 15: REGULATORY INFORMATION

Safety, health and environmental regulations and legislation specific for the substance or mixture:  
Candidate substances for authorization in Regulation (EC) 1907/2006 (REACH): Not relevant

Substances included in REACH Annex XIV (authorization list) and expiry date: Not relevant

Regulation (EC) 1005/2009, on substances that deplete the ozone layer: Not relevant

Active substances which have been included in Article 95 of Regulation (EU) No. 528/2012: Not relevant

REGULATION (EU) No 649/2012, regarding the export and import of dangerous chemical products: Not relevant

**Restrictions on the marketing and use of certain dangerous substances and mixtures {Annex xvzl of the REACH Regulation, etc ... }:**

They will not be used in:

- decorative articles intended to produce light or color effects obtained by means of different phases, for example, ambient lamps and ashtrays,
- fun and joke items,
- games for one or more participants or any item to be used as such, even for decorative purposes.

Specific provisions regarding the protection of people or the environment:

It is recommended that the information collected in this safety data sheet be used as input into a risk assessment of local circumstances in order to establish the necessary risk prevention measures for the handling, use, storage and disposal of this product..

Other legislations:

Regulation (CE) No. 1272/2008 of the European Parliament and of the Council, of December 16, 2008, on the classification, labeling and packaging of substances and mixtures, and by which Directives 67/548/CEE and 1999 are modified and repealed /45/EC and Regulation (EC) No 1907/2006 is amended

Royal Decree 117/2003, of January 31, on the limitation of emissions of volatile organic compounds due to the use of solvents in certain activities.

Royal Decree 1436/2010, of November 5, which modifies various royal decrees for their adaptation to Directive 2008/112/CE of the European Parliament and of the Council, which modifies several directives to adapt them to Regulation (CE) no. ° 1272/2008, on classification, labeling and packaging of substances and mixtures.

### 15.1 Chemical safety assessment:

The supplier has not carried out a chemical safety assessment.

## SECTION 16: OTHER INFORMATION

**Legislation** applicable to safety data sheets:

This safety data sheet has been developed in accordance with ANNEX II-Guide for the preparation of Safety Data Sheets of Regulation (EC) No. 1907/2006 (Regulation (EU) No. 2015/830)

Modifications with respect to the previous safety data sheet that affect risk management measures:

Not relevant

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## SECTION 16: OTHER INFORMATION (continued)

### Texts of the legislative phrases referred to in section 2:

H315: Causes skin irritation

H319: causes serious eye irritation

H317: May produce an allergic reaction on the skin

H341: Suspected of causing genetic defects

H411: Toxic to aquatic organisms, with lasting harmful effects

Texts of the legislative phrases contemplated in 53:

The phrases indicated do not refer to the product itself, they are for information only and refer to the individual components listed in section 3

### Regulation n°1272/2008 (CLP):

Aquatic Chronic 2: H411 - Toxic for the aquatic organisms, with lasting noxious effects

Irrit. 2: H319 - Causes serious eye irritation

Muta. 2: H341 - Suspected of causing genetic defects

Irrit. 2: H315 - Causes skin irritation

Skin Sens. 1: H317 - May produce an allergic reaction on the skin

### Classification procedure:

Skin Irrit. 2: Calculation method

Eye Irrit. 2: Calculation method

Skin Sens. 1: Calculation method

Muta. 2: calculation method

Aquatic Chronic 2: Calculation method

### Training Tips:

Minimum training in occupational risk prevention is recommended for personnel who will handle this product, in order to facilitate the understanding and interpretation of this safety data sheet, as well as product labeling.

### Main bibliographic sources:

<http://esis.jrc.ec.europa.eu>

<http://echa.europa.eu>

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

### Abbreviations and acronyms:

- ADR: Acuerdo europeo relativo al transporte internacional de mercancías peligrosas por carretera

-IMDG: Código Marítimo Internacional de Mercancías Peligrosas

-IATA: Asociación Internacional de Transporte Aéreo

-OACI: Organización de Aviación Civil Internacional

-DQO: Demanda Química de oxígeno

-DBO5: Demanda biológica de oxígeno a los 5 días

-BCF: factor de bioconcentración

-DL50: dosis letal 50

-CL50: concentración letal 50

-EC50: concentración efectiva 50

-Log POW: logaritmo coeficiente partición octanol-agua

-Koc: coeficiente de partición del carbono orgánico



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

- 1.1 Product identifier:** EPOXY INJECTION RESIN BV (Comp. B)
- 1.2 Relevant identified uses of the substance or mixture and uses advised against:**  
Relevant uses: Resin in solution. Exclusive use for professional user/industrial user.  
Uses advised against: Any use not specified in this section or in section 7.3
- 1.3 Details of the supplier of the safety data sheet:**  
CEMENT DESIGN  
Camino del avenida 2 S/N40.03717,-3.8179779, 45290  
Pantoja, Toledo España  
Tfno.: [911 40 79 66](tel:911407966)  
[info@cement-design.com](mailto:info@cement-design.com)  
[www.cement-design.com](http://www.cement-design.com)
- 1.4 Emergency telephone:** 90111 69 12 (Office hours: 08:30 - 13:30 y de 16:00 - 19:00)

### 2.1 Classification of the substance or mixture:

#### Regulation n°1272/2008 (CLP):

The classification of this product has been carried out in accordance with Regulation No. 1272/2008 (CLP).

Acute Tox. 4: Acute toxicity, Category 4, H302+H332

Aquatic Chronic 3: Chronic hazard to the aquatic environment, Category 3, H412

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

Skin Sens. 1B: Skin Sensitization, Category 1B, H317

### 2.2 Label elements:

#### Regulation n°1272/2008 (CLP):

Peligro



#### Hazard Statements:

Harmful if swallowed or inhaled

Harmful to aquatic life with long lasting effects

Causes severe skin burns and eye damage

May cause an allergic skin reaction

#### Precautionary statements:

Avoid breathing dust/fume/gas/mist/vapours/spray Wear protective gloves/clothing/glasses/face shield

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

IF INHALED: Remove person to fresh air and keep in a position that facilitates breathing. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if worn and easy. continue clarifying

Immediately call a POISON CENTER/doctor Store locked up

Dispose of the content/container in accordance with current waste treatment legislation

#### Supplementary information:

Corrosive to the respiratory tract

#### Substances contributing to the classification

Benzyl alcohol; Cycloaliphatic amine; m-phenylenebis(methylamine)

### 2.3 Other hazards:

### 2.4 Not relevant

## SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

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

### 3.1 Substance

Not applicable

### 3.2 Mixtures:

**Chemical description:** Mixture of substances

#### Components:

Identification	Chemical name/classification	Concentration
CAS: 100-51-6 CE: 202-859-9 Index: 603-057-00-5 REACH: 01-2119492630 38	Benzyl alcohol Regulation 1272/2008 Acute Tax. 4: H302+H332 -Atenci6n	ATP CLPOO 25- <50 %
GAS 38294-[i4-3 CE: 500-101-4 Index: Noaplicable REACH: 01-2119965165-JJ-XXXX	Cycloaliphatic amine Regulation1272/2008 q 9 h' "" 3: H412; Eye Dam. 1: H318; Skin Carr. IB: H314; Skin Sens. 1: H317 -	Self classified
GAS 1477-55-0 CE: 216-032-5 Index: No aplicable REACH 01-2119480150-50-XXXX	m-fenilenbis(metilamina) Regulation 1272/2008 1B H317; EUH07t - Peligro	Self classified 10 - < 25 %

For more information on the dangerousness of the substances, see sections 8,11,12,15 and 16 .

## SECTION 4: FIRST AID

### 4.1 Description of first aid:

Request immediate medical assistance, showing the MSDS of this product

By inhalation:

Remove the affected person from the place of exposure, supply him with clean air and keep him at rest. In serious cases such as cardiorespiratory arrest, artificial respiration techniques (mouth-to-mouth respiration, cardiac massage, oxygen supply, etc.) will be applied, requiring immediate medical assistance.

By contact with the skin:

Remove contaminated clothing and shoes, rinse the skin or shower the person affected, if necessary, with plenty of cold water and neutral soap\_ In case of significant condition, see a doctor. If the product causes burns or frostbite, clothing should not be removed as it could worsen the injury if it sticks to the skin. In the case of forming blisters on the skin, they should never be burst as this would increase the risk of infection.

By eye contact:

Flush eyes with plenty of room temperature water for at least 15 minutes. Prevent the affected person from rubbing or closing their eyes. In the event that the injured person wears contact lenses, they must be removed as long as they are not stuck to the eyes, otherwise additional damage could occur. In all cases, after washing, you should see a doctor as quickly as possible with the SOS of the product.

By ingestion/aspiration:

Request immediate medical assistance, showing the MSDS of this product. Do not induce vomiting, because its expulsion from the stomach can cause damage to the mucosa of the upper digestive tract, and its aspiration, to the respiratory tract. Rinse mouth and throat, as there is a possibility that they have been affected by ingestion. In the case of loss of consciousness, do not administer anything orally until the supervision of the doctor. Keep the patient at rest. .

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

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

### 4.3 Indication of any medical attention and special treatment that must be given immediately:

Not relevant

## MH.t.H. 5: FIRE FIGHTING MEASURES

### 5.1 Extinguishing media:

Non-flammable product under normal conditions of storage, handling and use. In case of inflammation as a consequence of improper handling, storage or use, preferably use polyvalent powder extinguishers (ABC powder), in accordance with the Regulation of fire protection installations (R.D. 1942/1993 and subsequent modifications). IT IS NOT RECO/1/1ENDED to use jet water as an extinguishing agent

- CONTINUED ON THE NEXT PAGE-



## SECTION 5: FIRE FIGHTING MEASURES (continues)

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

As a consequence of combustion or thermal decomposition, reaction by-products are generated that can be highly toxic and, consequently, can present a high risk to health.

#### Recommendations for fire fighting personnel:

Depending on the magnitude of the fire, the use of full protective clothing and self-contained breathing apparatus may be necessary. Have a minimum of emergency facilities or action elements (fire blankets, portable first aid kit,...) in accordance with R.D.486/1997 and subsequent amendments

#### Additional provisions:

Act in accordance with the Internal Emergency Plan and the Information Sheets on action in the event of accidents and other emergencies. Remove any source of ignition. In case of fire, refrigerate containers and storage tanks for products susceptible to inflammation, explosion or BLEVE as a result of high temperatures. Avoid spilling the products used to extinguish the fire into the aquatic environment.

## SECTION 6: ACCIDENTAL RELEASE MEASURES

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

Isolate leaks as long as they do not pose an additional risk to the people who carry out this function. Given the potential exposure with the spilled product, the use of personal protection elements is mandatory (see section 8). Evacuate area and keep unprotected people away.

### 6.2 Environmental precautions:

Avoid at all costs any type of discharge into the aquatic environment. Adequately contain the absorbed/collected product in hermetically sealable containers. Notify the competent 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 spill using sand or inert absorbent and transfer it to a safe place. Do not absorb in sawdust or other combustible absorbents. For any disposal considerations, see section 13.

### 6.4 References to other sections:

See sections 8 y 13.

## SECTION 7: MANIPULATION AND STORAGE

### 7.1 Precautions for safe handling:

#### A.- General precautions

Comply with current legislation on occupational risk prevention. Keep containers tightly closed. Control spills and residues, disposing of them by safe methods (section 6). Avoid free spillage from the container. Maintain order and cleanliness where dangerous products are handled.

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

Non-flammable product under normal conditions of storage, handling and use. It is recommended to transfer at slow speeds to avoid the generation of electrostatic charges that could affect flammable products. See section 10 for conditions and materials to avoid.

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

For exposure control see section 8. Do not eat, drink or smoke in work areas; wash hands after each use; and remove contaminated clothing and protective equipment before entering eating areas.

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

Due to the danger of this product for the environment, it is recommended to handle it within an area that has pollution control barriers in case of spillage, as well as to have absorbent material in the vicinity of it.

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

#### A.- Technical storage measures

ITC (R.D.379/2001): MIE-APQ-1

Clasificación: D

T9 mfn: 5 °C

- CONTINUED ON THE NEXT PAGE-





## SECTION 7: HANDLING AND STORAGE (continued)

T9 max: 30 °C

B.- General storage conditions.

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

### 7.3 Specific end uses:

Except for the indications already specified, it is not necessary to make any special recommendations regarding the uses of this product.

## SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

### 8.1 Control parameters:

Substances whose occupational exposure limit values must be controlled in the work environment (INSHT 2015):

There are no environmental limit values for the substances that make up the product.

#### DNEL (Workers):

Identification		Short exposition		Long exposition	
		Sistemica	Local	Sistemica	Local
Alcohol bencílico CAS: 100-51-6 CE: 202-859-9	Oral	Not relevant	Not relevant	Not relevant	Not relevant
	Skin	47 mg/kg	Not relevant	9,5 mg/kg	Not relevant
	Inhalation	450 mg/ma	Not relevant	90 mg/ma	Not relevant
Amina cicloalifática CAS: 38294-64-3 CE: 500-101-4	Oral	Not relevant	Not relevant	Not relevant	Not relevant
	Skin	Not relevant	Not relevant	0,14 mg/kg	Not relevant
	Inhalation	Not relevant	Not relevant	0,98 mg/m³	Not relevant

#### DNEL (Population):

Identification		Short exposition		Long exposition	
		Sistemica	Local	Sistemica	Local
Alcohol bencílico CAS: 100-51-6 CE: 202-859-9	Oral	25 mg/kg	Not relevant	5 mg/kg	Not relevant
	Skin	28,5 mg/kg	Not relevant	5,7 mg/kg	Not relevant
	Inhalation	40,55 mg/m³	Not relevant	8,11 mg/ma	Not relevant
Amina cicloalifática CAS: 38294-64-3 CE: 500-101-4	Oral	Not relevant	Not relevant	0,05 mg/kg	Not relevant
	Skin	Not relevant	Not relevant	0,05 mg/kg	Not relevant
	Inhalation	Not relevant	Not relevant	0,175 mg/ma	Not relevant

#### PNEC:

Identification		STP		Sweet water	
		Bottom	Intermittent	Saltwater	Sediment (Saltwater)
Alcohol bencílico CAS: 100-51-6 CE: 202-859-9	STP	39 mg/L	Not relevant	1 mg/L	Not relevant
	Bottom	0,456 mg/kg	Not relevant	0,1 mg/L	Not relevant
	Intermittent	2,3 mg/L	Not relevant	5,27 mg/kg	Not relevant
	Oral	Not relevant	Not relevant	0,527 mg/kg	Not relevant
Amina cicloalifática CAS: 38294-64-3 CE: 500-101-4	STP	10 mg/L	Not relevant	0,0111 mg/L	Not relevant
	Bottom	0,00279 mg/kg	Not relevant	0,00111 mg/L	Not relevant
	Intermittent	0,111 mg/L	Not relevant	0,0456 mg/kg	Not relevant
	Oral	1 g/kg	Not relevant	0,00456 mg/kg	Not relevant
m-fenilenbis(metilamina) CAS: 1477-55-0 CE: 216-032-5	STP	10 mg/L	Not relevant	0,094 mg/L	Not relevant
	Bottom	0,045 mg/kg	Not relevant	0,0094 mg/L	Not relevant
	Intermittent	0,152 mg/L	Not relevant	0,43 mg/kg	Not relevant
	Oral	Not relevant	Not relevant	0,043 mg/kg	Not relevant

### 8.2 Exposure controls:

A.- General safety and hygiene measures in the work environment:



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

As a preventive measure, the use of basic individual protection equipment is recommended. The corresponding "CE marking" according to R.D.1407/1992 and subsequent modifications. For more information on personal protective equipment (storage, use, cleaning, maintenance, protection class,...) consult the information brochure provided by the PPE manufacturer. The indications contained in this point refer to the pure product. The protection measures for the diluted product may vary depending on its degree of dilution, use, application method, etc. To determine the obligation to install emergency showers and/or eyewash stations in warehouses, the regulations regarding the storage of chemical products applicable in each case will be taken into account. For more information see sections 7.1 and 7.2.

All the information included here is a recommendation, and it is necessary for the occupational risk prevention services to specify it, since they are unaware of the additional prevention measures that the company may have.  
B.- Mandatory protection.

Pictogram	EPI	Mark	Norms CEN	Observations
 Mandatory protection of the respiratory tract	Filtering mask for gases and vapors	<b>CE</b> CAT III	EN 405:2001+AI:2009	Replace when the odor or taste of the contaminant is detected inside the mask or facepiece. When the contaminant does not have good warning properties, the use of insulating equipment is recommended.

C.- Protección específica de las manos.

Pictogram	EPI	Mark	Norms CEN	Observations
 Mandatory hand protection	Non-disposable chemical protection gloves	<b>CE</b> CAT III	EN 374-1:2003 EN 374-3:2003/AC:2006 EN 420:2003+AI:2009	The breakthrough time (Breakthrough Time) indicated by the manufacturer must be greater than the time of use of the product. Do not use protective creams after contact of the product with the skin.

Since the product is a mixture of different materials, the resistance of the glove material cannot be calculated in advance with reliability and therefore has to be checked before application.  
D.- Mandatory face protection

Pictogram	EPI	Mark	Norms CEN	Observations
 Mandatory protection On the face	Face shield	<b>CE</b> 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. Its use is recommended in case of risk of Splashes.

E.- body protection

Pictogram	EPI	Mark	Norms CEN	Observations
 Mandatory body protection	Protective garment against chemical risks	<b>CE</b> CAT 111	EN 13034:2005+AI:2009 EN 168:2001 EN ISO 13982-1:2004/Al:2010 EN ISO 6529:2001 EN ISO 6530:2005 EN 464:1994	Exclusive use at work. Clean periodically according to the manufacturer's instructions.
 Mandatory protection On the feet	Safety footwear against chemical risk	<b>CE</b> CAT III	EN ISO 20345:2011 EN 13832-1:2006	Replace boots at any sign of deterioration.

F.- Complementary emergency measures

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

### Environmental exposure controls:

Under community environmental protection legislation, it is recommended to avoid dumping both the product and its packaging into the environment. For additional information see section 7.1.D



## SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

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

For complete information, see the technical data sheet/product specification sheet.

#### Physical appearance:

Physical state at 20 °c:	Liquid
Appearance:	Undetermined
Color:	Colorless
Smell:	Amino
Olfactory threshold:	Not relevant*

#### Volatility:

Boiling point at atmospheric pressure:	200 °c
Vapor pressure at a 20 °c:	500 Pa
Vapor pressure at 50 °c:	Not relevant *
Evaporation rate at 20 °c:	Not relevant *

#### Product characterization:

Density at 20 °c:	Not relevant *
Density relative to 20 °c:	1,04
Dynamic viscosity at 20 °c:	280 cP
Kinematic viscosity at 20 °c:	4,75 est
Kinematic viscosity at 40 °c:	Not relevant *
Concentration:	Not relevant *
pH:	8 - 11
Vapor density at 20 °c:	Not relevant *
Partition coefficient n-octanol/water at 20 °c:	Not relevant *
Solubility in water at 20 °c:	Not relevant*
Solubility property:	Soluble in water
Decomposition temperature:	Not relevant*
Melting point/freezing point:	Not relevant*
Explosive properties:	Not relevant*
Oxidising properties :	Not relevant *

#### Inflammability:

Flashpoint :	100 °c
Inflammability (solid, gas):	Not relevant *
Auto-ignition temperature:	Not relevant *
Lower flammability limit:	Not relevant *
Upper flammability limit:	Not relevant *

### 9.2 Other data:

Surface tension at 20 °c:	Not relevant *
Refractive index:	Not relevant *

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

## SECTION 10: STABILITY AND REACTIVITY

### 10.1 Reactivity:

Dangerous reactions are not expected if the technical instructions for storage of chemicals are followed. See epigraph 7.

### 10.2 Chemical stability:

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

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## SECTION 10: ESTABILITY AND REACTIVITY (continued)

### 10.3 Possibility of hazardous reactions:

Under the indicated conditions, dangerous reactions that can produce excessive pressure or temperatures are not expected..

### 10.4 Conditions to avoid:

Applicable for handling and storage at room temperature:

Shock and friction	Contact with air	Heating	Sun light	Humidity
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable

### 10.5 Incompatible materials:

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

### 10.6 Hazardous decomposition products:

See section 10.3, 10.4 and 10.5 to know the decomposition products specifically. Depending on the decomposition conditions, complex mixtures of chemicals can be released as a result of decomposition: carbon dioxide (CO<sub>2</sub>), carbon monoxide and other organic compounds.

## 11.1 Information on toxicological effects:

There are no experimental data available on the product itself regarding the toxicological properties.

### Dangerous effects for health:

In case of repetitive or prolonged exposure or at concentrations higher than those established by the occupational exposure limits, adverse health *effects* may occur depending on the route of exposure:

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

Acute toxicity: Ingestion of a considerable dose can cause throat irritation, abdominal pain, nausea and vomiting.

Corrosivity/Irritability: Corrosive product, its ingestion causes burns destroying the tissues in all its thickness. For more information on side *effects* from skin contact see section 2.

#### B- Inhalation (acute effect)

Acute toxicity: Exposure to high concentrations can cause central nervous system depression, causing headache, dizziness, vertigo, nausea, vomiting, confusion, and in severe cases, loss of consciousness

Corrosivity/Irritability: Corrosive to the respiratory tract

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

- Contact with the skin: Mainly contact with the skin destroys the tissues in all their thickness, causing burns. For more information on side effects from skin contact see section 2.

Eye contact: Produces significant eye injuries after contact.

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

- Carcinogenicity: In view of the available data, the classification criteria are not met, as it does not contain substances classified as dangerous due to the effects described. For more information see section 3.

- Mutagenicity: In view of the 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: In view of the 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.

#### E- Sensitization effects:

Respiratory: In view of the available data, the classification criteria are not met, as it does not contain substances classified as dangerous with sensitizing effects above the limits included in point 3.2 of Regulation (EC) 2015/830. For more information see sections 2, 3 and 15.

- Cutaneous: Prolonged contact with the skin can lead to episodes of allergic contact dermatitis.

#### F- Specific Target Organ Toxicity (STOT)-Single Exposure::

In view of the 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:

- CONTINUED ON THE NEXT PAGE-



## SECTION 11: TOXICOLOGICAL INFORMATION (continued)

- Specific toxicity in certain organs (STOT)-repeated exposure: In view of the 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: In view of the 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:

In view of the 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.

### Additional Information:

Not relevant

### Substance-specific toxicological information:

Identification	Acute toxicity		Gender
Benzyl alcohol CAS: 100-51-6 CE: 202-859-9	OL50 oral	500 mg/kg	Rata
	OL50 skin	2500 mg/kg (ATEi)	
	CL50 inhalation	11 mg/L (4 h) (ATEi)	
m-fenilenbis( metilami na) CAS: 1477-55-0 CE: 216-032-5	OL50 oral	1090 mg/kg	Rata
	OL50 skin	Not relevant	
	CL50 inhalation	11 mg/L (4 h) (ATEi)	

## SECTION 12: ECOLOGICAL INFORMATION

There are no experimental data available on the mixture itself regarding the ecotoxicological properties..

### 12.1 Toxicity:

Identification		Acute toxicity	Specie	Gender
Benzyl alcohol CAS: 100-51-6 CE: 202-859-9	CLS0	646 mg/L (48 h)	Leuciscus idus	Fish
	CES0	400 mg/L (24 h)	Oaphnia magna	Shellfish
	CES0	79 mg/L (3 h)	Scenedesmus subspicatus	Alga
cycloaliphatic amine CAS: 38294-64-3 CE: 500-101-4	CLS0	10 - 100 mg/L (96 h)		Fish
	CES0	10 - 100 mg/L		Shellfish
	CES0	10 - 100 mg/L		Alga
m-phenylenebis(methylamine) CAS: 1477-55-0 CE: 216-032-5	CLS0	88 mg/L (96 h)	Oryzias latipes	Fish
	CES0	15 mg/L (48 h)	Oaphnia magna	Shellfish
	CES0	20 mg/L (72 h)	Selenastrum capricornutum	Alga

### 12.2 Persistence and degradability

Identification	Oegradability		Biodegradability	
Benzyl alcohol CAS: 100-51-6 CE: 202-859-9	OBOS	Not relevant	Concentration	100 mg/L
	OQO	Not relevant	Period	14 days
	OBOS/OQO	Not relevant	% Biodegraded	94%
m-fenilenbis( metila mina) CAS: 1477-55-0 CE: 216-032-5	OBOS	Not relevant	Concentration	14 mg/L
	OQO	Not relevant	Period	28 days
	OBOS/OQO	Not relevant	% Biodegraded	49%

### 12.3 Bioaccumulative potential:

Identification	Bioaccumulative potential	
Benzyl alcohol CAS: 100-51-6 CE: 202-859-9	BCF	0,3
	Log POW	1,1
	Potential	Low
m-fenilenbis( metila mina) CAS: 1477-55-0 CE: 216-032-5	BCF	3
	Log POW	0,18
	Potential	Low

### 12.4 Movility in soil:

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## Milli EKOLOGICAL INFORMATION (continues)

Identification	Absorption/Desorption			Volatility
Benzyl alcohol	K <sub>oc</sub>	Not relevant	Henry	Not relevant
CAS: 100-51-6	Conclusion	Not relevant	Dry soil	Not relevant
CE: 202-859-9	Surface tension	3,679E-2N/m (25 °C)	Wet soil	Not relevant
m-fenilenbis metilamina)	K <sub>oc</sub>	1300	Henry	Not relevant
CAS: 1477-55-0	Conclusion	Low	Dry soil	Not relevant
CE: 216-032-5	Surface tension	Not relevant	Wet soil	Not relevant

## 12.5 Results of PBT and vPvB assessment:

Not applicable

## 12.6 Other Adverse Effects:

Not described

## MM•t) • 13: RELATIVE CONSIDERATIONS TO ELIMINATION

### 13.1 Waste treatment methods:

C6de	Description	Type of waste (Regulation (EU) No. 1357/2014)
08 0111*	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 Sensitizing

Waste management (elimination and recovery):

Consult the authorized waste manager for recovery and disposal operations in accordance with Annex 1 and Annex 2 (Directive 2008/98/CE, Law 22/2011). In accordance with codes 15 01 (2014/955/UE), in the event that the container has been in direct contact with the product, it will be managed in the same way as the product itself, otherwise it will be managed as non-hazardous waste. Discharging into watercourses is not recommended. See section 6.2.

Legislative provisions related to waste management:

According to Annex II of Regulation (EC) No. 1907/2006 (REACH) the community or state provisions related to waste management are collected.

Community legislation: Directive 2008/98/CE, 2014/955/UE, Regulation (UE) n° 1357/2014 National legislation: Law 22/2011

MM·t·a 14: INFORMATION REGARDING TRANSPORTATION

### Land transport of dangerous goods:

En aplicaci6n al ADR 2015 y al RID 2015:



- |      |   |  |
|------|---|--|
| 14.1 | NUMBERONU:  | <b>UN2735</b>  |
| 14.2 | <b>UN proper shipping</b> name:   | CORROSIVE LIQUID AMINES, N.O.S. or LIQUID POLYAMINES<br>CORROSIVE, N.O.S. (cycloaliphatic amine) |
|      | Transport hazard  | 8  |
| 14.3 | class(es):  |  |
|      | Labels:   |  |
|      | Packing group:  | 8  |
| 14.4 | <b>Environmental</b>  | II   |
|      | Hazards:  | No   |
| 14.6 | Special precautions for users   |  |
|      | Special provisions:   | 274  |
|      | Tunnel restriction code:  | E  |
|      | Physicochemical properties:   | See epig. 9  |
|      | limited quantities:   | 1 L  |
| 14.7 | <b>Transport in bulk</b> according to Annex II of the Marpol 73/78 Convention and the IBC Code: | Not relevant   |

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## M:fiDn•JD 14: INFORMACION RELATIVA L TRANSPORTE (continua)

Transporte marítimo de mercancías peligrosas:

En aplicación al IMDG 37-14:



- |      |   |   |
|------|---|---|
| 14.1 | Number ONU:   | UN2735  |
| 14.2 | UN proper <b>shipping</b> name:   | CORROSIVE LIQUID M11NES, N.O.S. or LIQUID POLYM11NES<br>CORROSIVE, N.O.S. (cycloaliphatic amine)8 |
| 14.3 | Transport hazard class(es):   | 8   |
|      | Labels:   | TT  |
|      | Packing group:  | No  |
| 14   | Dangers for the   |   |
| 14.5 | environment:  |   |
| 14.6 | Special precautions for users   |   |
|      | Special provisions:   | 274   |
|      | Codes FEm:  | F-A, S-B  |
|      | Physicochemical properties:   | ver epigrafe 9  |
|      | limited quantities:   | 1L  |
| 14.7 | <b>Transport</b> in bulk according to Annex II of the Marpol 73/78 Convention and the IBC Code: | Not relevant  |

**Air transport of dangerous goods:**

In application to IATA/OACI 2015:



- |      |   |  |
|------|---|--|
| 14.1 | Number ONU:   | UN2735   |
| 14.2 | UN proper <b>shipping</b> name:   | CORROSIVE LIQUID AMINES, N.O.S. or LIQUID POLYAMINES<br>CORROSIVE, N.O.S. (cycloaliphatic amine) |
| 14.3 | Transport hazard class(es):   | g  |
|      | Labels:   | 8  |
|      | Packaging group:  | II   |
|      | Environmental   | No   |
| 14.4 | <b>Hazards:</b>   |  |
| 14.5 |   |  |
| 14.6 | Special precautions for users   |  |
|      | Physicochemical properties:   | see epigr. 9   |
| 14.7 | <b>Transport</b> in bulk according to annex II of the Marpol Convention 73/78 and the IBC code: | Not relevant   |

## Milit•a 15: REGULATORY INFORMATION

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

Candidate substances for authorization in Regulation (EC) 1907/2006 (REACH): Not relevant Substances included in REACH Annex XIV (authorization list) and expiration date: Not relevant Regulation (EC) 1005/2009, on substances that deplete the ozone layer: Not relevant

Active substances which have been included in Article 95 of Regulation (EU) No. 528/2012: Not relevant REGULATION (EU) No. 649/2012, regarding the export and import of dangerous chemical products: Not relevant

**Restrictions on the marketing and use of certain dangerous substances and mixtures {Annex xv of the REACH Regulation, etc.....):**

Nose utilizaran en:

- decorative articles intended to produce light or color effects obtained by means of different phases, for example, ambient lamps and ashtrays,
- amusement and joke items,
- games for one or more participants or any article to be used as such, even for decorative purposes.

- CONTINUED ON THE NEXT PAGE-





## SECTION 15: REGULATORY INFORMATION (continues)

### Specific provisions regarding the protection of people or the environment:

It is recommended that the information collected in this safety data sheet be used as input into a risk assessment of local circumstances in order to establish the necessary risk prevention measures for the handling, use, storage and disposal of this product.

### Other legislations:

Regulation (CE) No. 1272/2008 of the European Parliament and of the Council, of December 16, 2008, on the classification, labeling and packaging of substances and mixtures, and by which Directives 67/548/CEE and 1999 are modified and repealed /45/EC and Regulation (EC) No 1907/2006 is amended

Royal Decree 117/2003, of January 31, on the limitation of emissions of volatile organic compounds due to the use of solvents in certain activities.

Royal Decree 1436/2010, of November 5, which modifies various royal decrees for their adaptation to Directive 2008/112/CE of the European Parliament and of the Council, which modifies several directives to adapt them to Regulation (CE) no. 1272/2008, on classification, labeling and packaging of substances and mixtures.

### 15.2 Chemical Safety Assessment:

The supplier has not carried out a chemical safety assessment.

### Legislation applicable to safety data sheets:

This safety data sheet has been developed in accordance with ANNEX II-Guide for the preparation of Safety Data Sheets of Regulation (EC) No. 1907/2006 (Regulation (EU) No. 2015/830)

### Modifications with respect to the previous safety data sheet that affect risk management measures:

NoT relevant

### Texts of the legislative phrases referred to in section 2:

H314: Causes severe skin burns and eye damage

H412: Harmful to aquatic life with long lasting effects

H317: May cause an allergic skin reaction

H302+H332: Harmful if swallowed or inhaled

### Texts of the legislative phrases referred to in section 3:

The phrases indicated do not refer to the product itself, they are for information only and refer to the individual components listed in section 3

### Regulation n°1272/2008 (CLP):

Acute Tox. 4: H302+H332 - Harmful if swallowed or inhaled

Aquatic Chronic 3: H412 - Harmful to aquatic life with long lasting effects Eye Dam. 1: H318 - Causes serious eye damage

Skin Corr. 1B: H314 - Causes severe skin burns and eye damage Skin Sens. 1: H317 - May cause an allergic skin reaction

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

### Classification procedure:

Skin Corr. 1B: Calculation method Aquatic Chronic 3: Calculation method Skin Sens. 1B: Calculation method Acute Tox. 4: Calculation method

### Training Tips:

Minimum training in occupational risk prevention is recommended for personnel who will handle this product, in order to facilitate the understanding and interpretation of this safety data sheet, as well as product labeling.

### Main bibliographic sources:

<http://esis.jrc.ec.europa.eu>

<http://echa.europa.eu>

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

### Abbreviations and acronyms:



## SECTION 16: OTHER INFORMATION (continued)

- 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 Organization
- COD: Chemical Oxygen Demand
- BODS: Biological oxygen demand at 5 days
- BCF: bioconcentration factor
- LDS0: lethal dose 50
- LCS0: lethal concentration 50
- ECS0: effective concentration 50
- Log POW: logarithm of the octanol-water partition coefficient
- Koc: organic carbon partition coefficient

The information contained in this Safety Data Sheet is based on sources, technical knowledge and current legislation at European and state level, and its accuracy cannot be guaranteed. This information cannot be considered as a guarantee of the product's properties, it is simply a description of the safety requirements. The methodology and working conditions of the users of this product are beyond our knowledge and control, and it is always the user's ultimate responsibility to take the necessary measures to adapt to the legislative requirements regarding handling, storage, use and disposal of chemical products.. The information in this safety data sheet only refers to this product, which must not be used for purposes other than those specified.

- END OF SAFETY DATA SHEET -