

MORAVIA - MORAPOX-ZP (COMPONENT A) AS15-0103A

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

1.1 Product identifier: MORAVIA - MORAPOX-ZP (COMPONENT A) AS15-0103A

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

Relevant uses: Hardener for coatings. For professional user/industrial user only.

Uses advised against: All uses not specified in this section or in section 7.3

1.3 Details of the supplier of the safety data sheet:

MORAVİA BOYA VE KİMYA SAN.TİC.LTD.ŞTİ FEVZİ ÇAKMAK CADDESİ NO:2 SEFAKÖY/ KÜÇÜKÇEKMECE İSTANBUL - TURKEY Phone.: +90 212 579 13 36 - Fax: +90 212 426 55 12 moravia@moravia.com.tr www.moravia.com.tr

1.4 Emergency telephone number:

SECTION 2: HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture:

CLP Regulation (EC) No 1272/2008:

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

Acute Tox. 4: Acute toxicity, Category 4, H312+H332 Aquatic Chronic 2: Hazardous to the aquatic environment, long-term hazard, Category 2, H411 Eye Dam. 1: Serious eye damage, Category 1, H318 Flam. Liq. 2: Flammable liquids, Category 2, H225 Skin Irrit. 2: Skin irritation, Category 2, H315 Skin Sens. 1: Sensitisation, skin, Category 1, H317

2.2 Label elements:

CLP Regulation (EC) No 1272/2008:



Hazard statements:

Acute Tox. 4: H312+H332 - Harmful in contact with skin or if inhaled Aquatic Chronic 2: H411 - Toxic to aquatic life with long lasting effects Eye Dam. 1: H318 - Causes serious eye damage Flam. Liq. 2: H225 - Highly flammable liquid and vapour Skin Irrit. 2: H315 - Causes skin irritation Skin Sens. 1: H317 - May cause an allergic skin reaction **Precautionary statements:** P210: Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking P280: Wear protective gloves/protective clothing/eye protection/face protection P302+P352: IF ON SKIN: Wash with plenty of water P304+P340: IF INHALED: Remove person to fresh air and keep comfortable for breathing P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsina P370+P378: In case of fire: Use ABC powder extinguisher to extinguish P403+P235: Store in a well-ventilated place. Keep cool P501: Dispose of contents/container in accordance with regulations on hazardous waste or packaging and packaging waste respectively Supplementary information:

EUH205: Contains epoxy constituents. May produce an allergic reaction

Substances that contribute to the classification

Xylene; reaction product: bisphenol-A-(epichlorhydrin) (MW < 700); 2-methylpropan-1-ol

2.3 Other hazards:



SECTION 2: HAZARDS IDENTIFICATION (continued)

Product fails to meet PBT/vPvB criteria

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substance:

Non-applicable

3.2 Mixture:

Chemical description: Miscellaneous products

Components:

In accordance with Annex II of Regulation (EC) No 1907/2006 (point 3), the product contains:

	Identification		Chemical name/Classification	Concentration			
	1330-20-7	Xylene ⁽¹⁾	ATP CLP00				
REACH:	215-535-7 601-022-00-9 01-2119488216-32- XXXX	Regulation 1272/2008	Acute Tox. 4: H312+H332; Flam. Liq. 3: H226; Skin Irrit. 2: H315 - Warning	10 - <25 %			
	25068-38-6	reaction product: bis	phenol-A-(epichlorhydrin) (MW < 700) ⁽¹⁾ ATP CLP00				
REACH:	500-033-5 603-074-00-8 01-2119456619-26- XXXX	Regulation 1272/2008	lation 1272/2008 Aquatic Chronic 2: H411; Eye Irrit. 2: H319; Skin Irrit. 2: H315; Skin Sens. 1: H317 - Warning				
	78-93-3 201-159-0	Butanone ⁽¹⁾	ATP CLP00				
Index: REACH:	201-159-0 606-002-00-3 01-2119457290-43- XXXX	Regulation 1272/2008	Eye Irrit. 2: H319; Flam. Liq. 2: H225; STOT SE 3: H336; EUH066 - Danger	2,5 - <10 %			
	78-83-1	2-methylpropan-1-o	(1) ATP CLP00				
Index: REACH:	201-148-0 603-108-00-1 01-2119484609-23- XXXX	Regulation 1272/2008	Eye Dam. 1: H318; Flam. Liq. 3: H226; Skin Irrit. 2: H315; STOT SE 3: H335; STOT 👔 🔅 🏈	2,5 - <10 %			
	7779-90-0	trizinc bis(orthophos	phate)(1) ATP CLP00				
REACH:	231-944-3 Non-applicable 01-2119485044-40- XXXX	Regulation 1272/2008	Aquatic Acute 1: H400; Aquatic Chronic 1: H410 - Warning	<1 %			
	1314-13-2 215-222-5 030-013-00-7 : 01-2119463881-32- XXXX	zinc oxide ⁽¹⁾ ATP CLP00					
Index:		Regulation 1272/2008	Aquatic Acute 1: H400; Aquatic Chronic 1: H410 - Warning	<1 %			

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

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

SECTION 4: FIRST AID MEASURES

4.1 Description of first aid measures:

The symptoms resulting from intoxication can appear after exposure, therefore, in case of doubt, seek medical attention for direct exposure to the chemical product or persistent discomfort, 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 water for at least 15 minutes. If the injured person uses contact lenses, these should be removed unless they are stuck to the eyes, in which case removal could cause further damage. In all cases, after cleaning, a doctor should be consulted as quickly as possible with the SDS for the product.



SECTION 4: FIRST AID MEASURES (continued)

By ingestion/aspiration:

Do not induce vomiting, but if it does happen keep the head down to avoid aspiration. Keep the person affected at rest. Rinse out the mouth and throat, as they may have been affected during ingestion.

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

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

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

Non-applicable

SECTION 5: FIREFIGHTING MEASURES

5.1 Extinguishing media:

If possible use polyvalent powder fire extinguishers (ABC powder), alternatively use foam or carbon dioxide extinguishers (CO₂). IT IS RECOMMENDED NOT to use full jet 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 self-contained breathing apparatus (SCBA). 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. Eliminate all sources of ignition. In case of fire, cool the storage containers and tanks for products susceptible to combustion, 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. Evacuate the area and keep out those without protection. Personal protection equipment must be used against potential contact with the spilt product (See section 8). Above all prevent the formation of any vapour-air flammable mixtures, through either ventilation or the use of an inert medium. Destroy any source of ignition. Eliminate electrostatic charges by interconnecting all the conductive surfaces on which static electricity could form, and also ensuring that all surfaces are connected to the ground.

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



SECTION 7: HANDLING AND STORAGE (continued)

Transfer in well ventilated areas, preferably through localized extraction. Fully control sources of ignition (mobile phones, sparks,...) and ventilate during cleaning operations. Avoid the existence of dangerous atmospheres inside containers, applying inertization systems where possible. Transfer at a slow speed to avoid the creation of electrostatic charges. Against the possibility of electrostatic charges: ensure a perfect equipotential connection, always use groundings, do not wear work clothes made of acrylic fibres, preferably wearing cotton clothing and conductive footwear. Comply with the essential security requirements for equipment and systems defined in Directive 2014/34/EC (ATEX 100) and with the minimum requirements for protecting the security and health of workers under the selection criteria of Directive 1999/92/EC (ATEX 137). Consult section 10 for 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.

7.2 Conditions for safe storage, including any incompatibilities:

A.- Technical measures for storage

Minimum Temp.:5 °CMaximum Temp.:30 °CMaximum time:6 Months

B.- General conditions for storage

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

7.3 Specific end use(s):

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

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters:

Substances whose occupational exposure limits have to be monitored in the workplace

Identification	Occupational exposure limits			
Xylene	IOELV (8h)	50 ppm	221 mg/m ³	
CAS: 1330-20-7 EC: 215-535-7	IOELV (STEL)	100 ppm	442 mg/m ³	
Butanone	IOELV (8h)	200 ppm	600 mg/m ³	
CAS: 78-93-3 EC: 201-159-0	IOELV (STEL)	300 ppm	900 mg/m ³	

DNEL (Workers):

		Short exposure		Long exposure	
Identification		Systemic	Local	Systemic	Local
Xylene	Oral	Non-applicable	Non-applicable	Non-applicable	Non-applicable
CAS: 1330-20-7	Dermal	Non-applicable	Non-applicable	180 mg/kg	Non-applicable
EC: 215-535-7	Inhalation	289 mg/m ³	289 mg/m ³	77 mg/m³	Non-applicable
reaction product: bisphenol-A-(epichlorhydrin) ($\rm MW < 700$)	Oral	Non-applicable	Non-applicable	Non-applicable	Non-applicable
CAS: 25068-38-6	Dermal	8,33 mg/kg	Non-applicable	8,33 mg/kg	Non-applicable
EC: 500-033-5	Inhalation	12,25 mg/m ³	Non-applicable	12,25 mg/m ³	Non-applicable
Butanone	Oral	Non-applicable	Non-applicable	Non-applicable	Non-applicable
CAS: 78-93-3	Dermal	Non-applicable	Non-applicable	1161 mg/kg	Non-applicable
EC: 201-159-0	Inhalation	Non-applicable	Non-applicable	600 mg/m ³	Non-applicable
2-methylpropan-1-ol	Oral	Non-applicable	Non-applicable	Non-applicable	Non-applicable
CAS: 78-83-1	Dermal	Non-applicable	Non-applicable	Non-applicable	Non-applicable
EC: 201-148-0	Inhalation	Non-applicable	Non-applicable	Non-applicable	310 mg/m ³
trizinc bis(orthophosphate)	Oral	Non-applicable	Non-applicable	Non-applicable	Non-applicable
CAS: 7779-90-0	Dermal	Non-applicable	Non-applicable	83 mg/kg	Non-applicable
EC: 231-944-3	Inhalation	Non-applicable	Non-applicable	5 mg/m ³	Non-applicable



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SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION (continued)

		Short exposure		Long exposure	
Identification		Systemic	Local	Systemic	Local
zinc oxide	Oral	Non-applicable	Non-applicable	Non-applicable	Non-applicable
CAS: 1314-13-2	Dermal	Non-applicable	Non-applicable	83 mg/kg	Non-applicable
EC: 215-222-5	Inhalation	Non-applicable	Non-applicable	5 mg/m³	Non-applicable

DNEL (General population):

		Short	exposure	Long exposure	
Identification		Systemic	Local	Systemic	Local
Xylene	Oral	Non-applicable	Non-applicable	1,6 mg/kg	Non-applicable
CAS: 1330-20-7	Dermal	Non-applicable	Non-applicable	108 mg/kg	Non-applicable
EC: 215-535-7	Inhalation	Non-applicable	Non-applicable	14,8 mg/m ³	Non-applicable
reaction product: bisphenol-A-(epichlorhydrin) (MW < 700)	Oral	0,75 mg/kg	Non-applicable	0,75 mg/kg	Non-applicable
CAS: 25068-38-6	Dermal	3,571 mg/kg	Non-applicable	3,571 mg/kg	Non-applicable
EC: 500-033-5	Inhalation	Non-applicable	Non-applicable	Non-applicable	Non-applicable
Butanone	Oral	Non-applicable	Non-applicable	31 mg/kg	Non-applicable
CAS: 78-93-3	Dermal	Non-applicable	Non-applicable	412 mg/kg	Non-applicable
EC: 201-159-0	Inhalation	Non-applicable	Non-applicable	106 mg/m ³	Non-applicable
2-methylpropan-1-ol	Oral	Non-applicable	Non-applicable	25 mg/kg	Non-applicable
CAS: 78-83-1	Dermal	Non-applicable	Non-applicable	Non-applicable	Non-applicable
EC: 201-148-0	Inhalation	Non-applicable	Non-applicable	Non-applicable	55 mg/m ³
trizinc bis(orthophosphate)	Oral	Non-applicable	Non-applicable	0,83 mg/kg	Non-applicable
CAS: 7779-90-0	Dermal	Non-applicable	Non-applicable	83 mg/kg	Non-applicable
EC: 231-944-3	Inhalation	Non-applicable	Non-applicable	2,5 mg/m ³	Non-applicable
zinc oxide	Oral	Non-applicable	Non-applicable	0,83 mg/kg	Non-applicable
CAS: 1314-13-2	Dermal	Non-applicable	Non-applicable	83 mg/kg	Non-applicable
EC: 215-222-5	Inhalation	Non-applicable	Non-applicable	2,5 mg/m ³	Non-applicable

PNEC:

Identification				
Xylene	STP	6,58 mg/L	Fresh water	0,327 mg/L
CAS: 1330-20-7	Soil	2,31 mg/kg	Marine water	0,327 mg/L
EC: 215-535-7	Intermittent	0,327 mg/L	Sediment (Fresh water)	12,46 mg/kg
	Oral	Non-applicable	Sediment (Marine water)	12,46 mg/kg
reaction product: bisphenol-A-(epichlorhydrin) (MW < 700)	STP	10 mg/L	Fresh water	0,006 mg/L
CAS: 25068-38-6	Soil	0,196 mg/kg	Marine water	0,0006 mg/L
EC: 500-033-5	Intermittent	0,018 mg/L	Sediment (Fresh water)	0,996 mg/kg
	Oral	11 g/kg	Sediment (Marine water)	0,0996 mg/kg
Butanone	STP	709 mg/L	Fresh water	55,8 mg/L
CAS: 78-93-3	Soil	22,5 mg/kg	Marine water	55,8 mg/L
EC: 201-159-0	Intermittent	55,8 mg/L	Sediment (Fresh water)	284,74 mg/kg
	Oral	1000 g/kg	Sediment (Marine water)	284,7 mg/kg
2-methylpropan-1-ol	STP	10 mg/L	Fresh water	0,4 mg/L
CAS: 78-83-1	Soil	0,0699 mg/kg	Marine water	0,04 mg/L
EC: 201-148-0	Intermittent	11 mg/L	Sediment (Fresh water)	1,52 mg/kg
	Oral	Non-applicable	Sediment (Marine water)	0,152 mg/kg
trizinc bis(orthophosphate)	STP	0,1 mg/L	Fresh water	0,0206 mg/L
CAS: 7779-90-0	Soil	35,6 mg/kg	Marine water	0,0061 mg/L
EC: 231-944-3	Intermittent	Non-applicable	Sediment (Fresh water)	117,8 mg/kg
	Oral	Non-applicable	Sediment (Marine water)	56,5 mg/kg
zinc oxide	STP	0,1 mg/L	Fresh water	0,0206 mg/L
CAS: 1314-13-2	Soil	35,6 mg/kg	Marine water	0,0061 mg/L
EC: 215-222-5	Intermittent	Non-applicable	Sediment (Fresh water)	117,8 mg/kg
	Oral	Non-applicable	Sediment (Marine water)	56,5 mg/kg



SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION (continued)

8.2 Exposure controls:

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

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

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

B.- Respiratory protection

Pictogram	PPE	Labelling	CEN Standard	Remarks
Mandatory respiratory tract protection	Filter mask for gases and vapours		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		EN ISO 374-1:2016 EN 16523-1:2015 EN 420:2003+A1:2009	The Breakthrough Time indicated by the manufacturer must exceed the period during which the product is being used. Do not use protective creams after the product has come into contact with skin.

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

D.- Ocular and facial protection

Pictogram	PPE	Labelling	CEN Standard	Remarks
Mandatory face	Face shield		EN 166:2001 EN 167:2001 EN 168:2001 EN ISO 4007:2018	Clean daily and disinfect periodically according to the manufacturer's instructions. Use if there is a risk of splashing.

E.- Body protection

Pictogram	PPE	Labelling	CEN Standard	Remarks
Mandatory complete body protection	Disposable clothing for protection against chemical risks, with antistatic and fireproof properties		EN 1149-1,2,3 EN 13034:2005+A1:2009 EN ISO 13982- 1:2004/A1:2010 EN ISO 6529:2013 EN ISO 6530:2005 EN ISO 13688:2013 EN 464:1994	For professional use only. Clean periodically according to the manufacturer's instructions.
Mandatory foot protection	Safety footwear for protection against chemical risk, with antistatic and heat resistant properties		EN ISO 13287:2012 EN ISO 20345:2011 EN 13832-1:2019	Replace boots at any sign of deterioration.

F.- Additional emergency measures

[Emergency measure	Standards	Emergency measure	Standards
	+	ANSI Z358-1 ISO 3864-1:2011, ISO 3864-4:2011	0 +	DIN 12 899 ISO 3864-1:2011, ISO 3864-4:2011
	Emergency shower		Eyewash stations	

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:



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SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION (continued)

V.O.C. (Supply): V.O.C. density at 20 °C: Average carbon number: Average molecular weight: 26,82 % weight 431,72 kg/m³ (431,72 g/L) 6,97 97,63 g/mol

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chem	ical properties:
For complete information see the product dat	tasheet.
Appearance:	
Physical state at 20 °C:	Liquid
Appearance:	Not available
Colour:	Grey
Odour:	Not available
Odour threshold:	Non-applicable *
Volatility:	
Boiling point at atmospheric pressure:	121 °C
Vapour pressure at 20 °C:	2477 Pa
Vapour pressure at 50 °C:	10570,5 Pa (10,57 kPa)
Evaporation rate at 20 °C:	Non-applicable *
Product description:	
Density at 20 °C:	1580 - 1640 kg/m³
Relative density at 20 °C:	1,58 - 1,64
Dynamic viscosity at 20 °C:	Non-applicable *
Kinematic viscosity at 20 °C:	Non-applicable *
Kinematic viscosity at 40 °C:	Non-applicable *
Concentration:	Non-applicable *
pH:	Non-applicable *
Vapour density at 20 °C:	Non-applicable *
Partition coefficient n-octanol/water 20 °C:	Non-applicable *
Solubility in water at 20 °C:	Non-applicable *
Solubility properties:	Non-applicable *
Decomposition temperature:	Non-applicable *
Melting point/freezing point:	Non-applicable *
Explosive properties:	Non-applicable *
Oxidising properties:	Non-applicable *
Flammability:	
Flash Point:	20 °C
Flammability (solid, gas):	Non-applicable *
Autoignition temperature:	427 °C
Lower flammability limit:	Not available
Upper flammability limit:	Not available
Explosive:	
Lower explosive limit:	Non-applicable *
Upper explosive limit:	Non-applicable *
2 Other information: *Not relevant due to the nature of the product, not pro	oviding information property of its hazards.



SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES (continued)

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:

Not applicable Risk of combustion Avoid direct impact Not applica	ole

10.5 Incompatible materials:

Acids	Water	Oxidising materials	Combustible materials	Others
Avoid strong acids	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 (CO2), carbon monoxide and other organic compounds.

SECTION 11: TOXICOLOGICAL INFORMATION

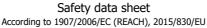
11.1 Information on toxicological effects:

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 the recommended occupational exposure limits, adverse effects on health may result, depending on the means of exposure:

- A- Ingestion (acute effect):
 - Acute toxicity : Based on available data, the classification criteria are not met, as it does not contain substances classified as dangerous for consumption. For more information see section 3.
 - Corrosivity/Irritability: The consumption of a considerable dose can cause irritation in the throat, abdominal pain, nausea and vomiting.
- B- Inhalation (acute effect):
 - Acute toxicity : Exposure in high concentration can interfere with the central nervous system causing headache, dizziness, vertigo, nausea, vomiting, confusion, and in serious cases, loss of consciousness.
 - Corrosivity/Irritability: Based on available data, the classification criteria are not met. However, it contains substances classified as dangerous for inhalation. For more information see section 3.
- C- Contact with the skin and the eyes (acute effect):
 - Contact with the skin: Produces skin inflammation.
 - Contact with the eyes: Produces serious eye damage after contact.
- D- CMR effects (carcinogenicity, mutagenicity and toxicity to reproduction):





SECTION 11: TOXICOLOGICAL INFORMATION (continued)

- 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.
- IARC: Xylene (3); Talc (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, as it does not 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 sensitising effects. For more information see section 3.
 - · Cutaneous: Prolonged contact with the skin can result in episodes of allergic contact dermatitis.
- F- Specific target organ toxicity (STOT) single exposure:

Based on available data, the classification criteria are not met. However, it contains substances classified as dangerous for inhalation. 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: 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.

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
Xylene	LD50 oral	2100 mg/kg	Rat
CAS: 1330-20-7	LD50 dermal	1100 mg/kg (ATEi)	Rat
EC: 215-535-7	LC50 inhalation	11 mg/L (4 h) (ATEi)	
2-methylpropan-1-ol	LD50 oral	3350 mg/kg	Rat
CAS: 78-83-1	LD50 dermal	2460 mg/kg	Rabbit
EC: 201-148-0	LC50 inhalation	24,6 mg/L (4 h)	Rat
Butanone	LD50 oral	4000 mg/kg	Rat
CAS: 78-93-3	LD50 dermal	6400 mg/kg	Rabbit
EC: 201-159-0	LC50 inhalation	23,5 mg/L (4 h)	Rat
zinc oxide	LD50 oral	7950 mg/kg	Mouse
CAS: 1314-13-2	LD50 dermal	Non-applicable	
EC: 215-222-5	LC50 inhalation	Non-applicable	

SECTION 12: ECOLOGICAL INFORMATION

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

12.1 Toxicity:

Identification		Acute toxicity	Species	Genus
Xylene	LC50	13.5 mg/L (96 h)	Oncorhynchus mykiss	Fish
CAS: 1330-20-7	EC50	3.4 mg/L (48 h)	Ceriodaphnia dubia	Crustacean
EC: 215-535-7	EC50	10 mg/L (72 h)	Skeletonema costatum	Algae
reaction product: bisphenol-A-(epichlorhydrin) (MW < 700)	LC50	1 - 10 mg/L (96 h)		Fish
CAS: 25068-38-6	EC50	1 - 10 mg/L		Crustacean
EC: 500-033-5	EC50	1 - 10 mg/L		Algae



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SECTION 12: ECOLOGICAL INFORMATION (continued)

Identification		Acute toxicity	Species	Genus
Butanone	LC50	3220 mg/L (96 h)	Pimephales promelas	Fish
CAS: 78-93-3	EC50	5091 mg/L (48 h)	Daphnia magna	Crustacean
EC: 201-159-0	EC50	4300 mg/L (168 h)	Scenedesmus quadricauda	Algae
2-methylpropan-1-ol	LC50	2030 mg/L (96 h)	Carassius auratus	Fish
CAS: 78-83-1	EC50	1439 mg/L (48 h)	Daphnia magna	Crustacean
EC: 201-148-0	EC50	1250 mg/L (48 h)	Scenedesmus subspicatus	Algae
trizinc bis(orthophosphate)	LC50	0.1 - 1 mg/L (96 h)		Fish
CAS: 7779-90-0	EC50	0.1 - 1 mg/L		Crustacean
EC: 231-944-3	EC50	0.1 - 1 mg/L		Algae
zinc oxide	LC50	0.82 mg/L (96 h)	Oncorhynchus kisutch	Fish
CAS: 1314-13-2	EC50	3.4 mg/L (48 h)	Daphnia magna	Crustacean
EC: 215-222-5	EC50	Non-applicable		

12.2 Persistence and degradability:

Identification	Degradability		Biodegradab	ility
Xylene	BOD5	Non-applicable	Concentration	Non-applicable
CAS: 1330-20-7	COD	Non-applicable	Period	28 days
EC: 215-535-7	BOD5/COD	Non-applicable	% Biodegradable	88 %
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 %
Butanone	BOD5	2.03 g O2/g	Concentration	Non-applicable
CAS: 78-93-3	COD	2.31 g O2/g	Period	20 days
EC: 201-159-0	BOD5/COD	0.88	% Biodegradable	89 %
2-methylpropan-1-ol	BOD5	0.4 g O2/g	Concentration	100 mg/L
CAS: 78-83-1	COD	2.41 g O2/g	Period	14 days
EC: 201-148-0	BOD5/COD	0.17	% Biodegradable	90 %

12.3 Bioaccumulative potential:

Identification	Bio	Bioaccumulation potential		
Xylene	BCF	9		
CAS: 1330-20-7	Pow Log	2.77		
EC: 215-535-7	Potential	Low		
reaction product: bisphenol-A-(epichlorhydrin) (MW < 700)	BCF	4		
CAS: 25068-38-6	Pow Log	2.8		
EC: 500-033-5	Potential	Low		
Butanone	BCF	3		
CAS: 78-93-3	Pow Log	0.29		
EC: 201-159-0	Potential	Low		
2-methylpropan-1-ol	BCF	3		
CAS: 78-83-1	Pow Log	0.76		
EC: 201-148-0	Potential	Low		

12.4 Mobility in soil:

Identification	Absorp	Absorption/desorption		Volatility	
Xylene	Кос	202	Henry	524,86 Pa·m ³ /mol	
CAS: 1330-20-7	Conclusion	Moderate	Dry soil	Yes	
EC: 215-535-7	Surface tension	Non-applicable	Moist soil	Yes	
Butanone	Кос	30	Henry	5,77 Pa·m ³ /mol	
CAS: 78-93-3	Conclusion	Very High	Dry soil	Yes	
EC: 201-159-0	Surface tension	2,396E-2 N/m (25 °C)	Moist soil	Yes	
2-methylpropan-1-ol	Кос	Non-applicable	Henry	Non-applicable	
CAS: 78-83-1	Conclusion	Non-applicable	Dry soil	Non-applicable	
EC: 201-148-0	Surface tension	2,378E-2 N/m (25 °C)	Moist soil	Non-applicable	

12.5 Results of PBT and vPvB assessment:



SECTION 12: ECOLOGICAL INFORMATION (continued)

Product fails to meet PBT/vPvB criteria

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 hazardous substances	Dangerous

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

HP14 Ecotoxic, HP3 Flammable, HP6 Acute Toxicity, HP13 Sensitising, HP4 Irritant — skin irritation and eye damage

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) No 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 2019 and RID 2019:

14.2 14.3	UN number: UN proper shipping name: Transport hazard class(es): Labels:	UN1263 PAINT RELATED MATERIAL 3 3
14.4	Packing group: Environmental hazards:	II
		Yes
14.6	Special precautions for user	
	Special regulations:	163, 367, 640D, 650
	Tunnel restriction code:	D/E
	Physico-Chemical properties:	see section 9
	Limited quantities:	5 L
14.7	Transport in bulk according to Annex II of Marpol and the IBC Code:	Non-applicable
Transport of dangero	us goods by sea:	
With regard to IMDG 39	-18:	



SECTION 14: TRANSPORT	INFORMATION (continued)	
14.1 14.2 14.3 14.4 14.4 14.5 14.6	UN number: UN proper shipping name: Transport hazard class(es): Labels: Packing group: Environmental hazards: Special precautions for user Special regulations: EmS Codes: Physico-Chemical properties: Limited quantities: Segregation group: Transport in bulk according to Annex II of Marpol and the IBC Code:	UN1263 PAINT RELATED MATERIAL 3 3 II Yes 163, 367 F-E, S-E see section 9 5 L Non-applicable Non-applicable
	5 7	
14.2 14.3 14.4 14.5 14.6	UN number: UN proper shipping name: Transport hazard class(es): Labels: Packing group: Environmental hazards: Special precautions for user Physico-Chemical properties: Transport in bulk according to Annex II of Marpol and the IBC Code:	UN1263 PAINT RELATED MATERIAL 3 3 II Yes see section 9 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) No 1907/2006 (REACH): Non-applicable

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

Regulation (EC) No 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

Seveso III:

Section	Description	Lower-tier requirements	Upper-tier requirements		
P5c		5000	50000		
E2		200	500		
Limitations etc):	Limitations to commercialisation and the use of certain dangerous substances and mixtures (Annex XVII REACH,				



SECTION 15: REGULATORY INFORMATION (continued)

Shall not be used, as substance or as mixtures in aerosol dispensers where these aerosol dispensers are intended for supply to the general public for entertainment and decorative purposes such as the following:

- metallic glitter intended mainly for decoration,
- artificial snow and frost,
- "whoopee" cushions,
- silly string aerosols,
- imitation excrement,
- horns for parties,
- decorative flakes and foams,
- artificial cobwebs,
- stink bombs.

Without prejudice to the application of other Community provisions on the classification, packaging and labelling of substances, suppliers shall ensure before the placing on the market that the packaging of aerosol dispensers referred to above is marked visibly, legibly and indelibly with:

'For professional users only'.

Shall not be used in:

—ornamental articles intended to produce light or colour effects by means of different phases, for example in ornamental lamps and ashtrays,

-tricks and jokes,

-games for one or more participants, or any article intended to be used as such, even with ornamental aspects.

Specific provisions in terms of protecting people or the environment:

It is recommended to use the information included in this safety data sheet as a basis for conducting workplace-specific risk assessments in order to establish the necessary risk prevention measures for the handling, 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) No 1907/2006 (Regulation (EC) No 2015/830)

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

Non-applicable

Texts of the legislative phrases mentioned in section 2:

H315: Causes skin irritation

- H318: Causes serious eye damage
- H317: May cause an allergic skin reaction
- H411: Toxic to aquatic life with long lasting effects
- H312+H332: Harmful in contact with skin or if inhaled
- H225: Highly flammable liquid and vapour

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) No 1272/2008:

Acute Tox. 4: H312+H332 - Harmful in contact with skin 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

Eye Dam. 1: H318 - Causes serious eye damage

Eye Irrit. 2: H319 - Causes serious eye irritation

Flam. Liq. 2: H225 - Highly flammable liquid and vapour

Flam. Liq. 3: H226 - Flammable liquid and vapour Skin Irrit. 2: H315 - Causes skin irritation

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

STOT SE 3: H335 - May cause respiratory irritation

STOT SE 3: H336 - May cause drowsiness or dizziness

Classification procedure:



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SECTION 16: OTHER INFORMATION (continued)

Skin Irrit. 2: Calculation method Eye Dam. 1: Calculation method Skin Sens. 1: Calculation method Aquatic Chronic 2: Calculation method Acute Tox. 4: Calculation method Flam. Lig. 2: Calculation method (2.6.4.3)

Advice related to training:

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

Principal bibliographical sources:

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

Abbreviations and acronyms:

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

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.