Conforms to Regulation (EC) No. 1907/2006 (REACH), Annex II, as amended by Regulation (EU) No. 2015/830

# **SAFETY DATA SHEET**

Date of issue/Date of revision

: 15 January 2020 Version



: 6.02

# SECTION 1: Identification of the substance/mixture and of the company/ undertaking

1.1 Product identifier	
Product name	: SIGMAZINC 109 HARDENER
Product code	: 00140773
Product type	: Liquid.
Other means of identification	on
Not available.	
1.2 Relevant identified uses	of the substance or mixture and uses advised against
Product use	: Professional applications, Used by spraying.
Use of the substance/ mixture	: Coating.
Uses advised against	: Product is not intended, labelled or packaged for consumer use.
1.3 Details of the supplier of	the safety data sheet
PPG Côte d'Ivoire	
15 BP 396, Abidjan 15 Cote D'Ivoire	
Tel: 00225 21 75 04 10	
Fax: 00225 21 27 16 28	
e-mail address of person	: PS.ACEMEA@ppg.com
responsible for this SDS	

# **SECTION 2: Hazards identification**

2.1 Classification of the substance or mixture Product definition : Mixture Classification according to Regulation (EC) No. 1272/2008 [CLP/GHS] Flam. Liq. 3, H226 Skin Irrit. 2, H315 Eye Dam. 1, H318 Skin Sens. 1, H317 STOT SE 3, H335 Asp. Tox. 1, H304 Aquatic Chronic 3, H412

The product is classified as hazardous according to Regulation (EC) 1272/2008 as amended.

See Section 16 for the full text of the H statements declared above.

See Section 11 for more detailed information on health effects and symptoms.

#### 2.2 Label elements

Code : 00140773 SIGMAZINC 109 HARDENER

# SECTION 2: Hazards identification

Hazard pictograms	:	
Signal word	:	Danger
Hazard statements	:	Flammable liquid and vapour. Causes serious eye damage. Causes skin irritation. May cause an allergic skin reaction. May be fatal if swallowed and enters airways. May cause respiratory irritation. Harmful to aquatic life with long lasting effects.
Precautionary statements		
Prevention	:	Wear protective gloves. Wear protective clothing. Wear eye or face protection. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Avoid breathing vapour.
Response	:	IF INHALED: Remove person to fresh air and keep comfortable for breathing. IF SWALLOWED: Immediately call a POISON CENTER or physician. IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
Storage	:	Store in a well-ventilated place. Keep cool.
Disposal	:	Not applicable.
Hazardous ingredients	:	xylene Fatty acids, C18-unsatd., dimers, reaction products with polyethylenepolyamines 3,6-diazaoctanethylenediamin
Supplemental label elements	:	Not applicable.
Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles	:	Not applicable.
Special packaging requirem	en	t <u>s</u>
Containers to be fitted with child-resistant fastenings	:	Not applicable.
Tactile warning of danger	1	Not applicable.
2.3 Other hazards		
Product meets the criteria for PBT or vPvB	:	This mixture does not contain any substances that are assessed to be a PBT or a vPvB.
Other hazards which do not result in classification	:	Causes digestive tract burns. Prolonged or repeated contact may dry skin and cause irritation.

: 00140773

Date of issue/Date of revision

# SIGMAZINC 109 HARDENER

Code

## **SECTION 3: Composition/information on ingredients**

3.2 Mixtures :	Mixture			
Product/ingredient name	Identifiers	% by weight	Classification Regulation (EC) No. 1272/2008 [CLP]	Туре
xylene	REACH #: 01-2119488216-32 EC: 215-535-7 CAS: 1330-20-7 Index: 601-022-00-9	≥25 - ≤49	Flam. Liq. 3, H226 Acute Tox. 4, H312 Acute Tox. 4, H332 Skin Irrit. 2, H315 Eye Irrit. 2, H319 STOT SE 3, H335 Asp. Tox. 1, H304	[1] [2]
Fatty acids, C18-unsatd., dimers, reaction products with polyethylenepolyamines	CAS: 68410-23-1	≥10 - <25	Skin Irrit. 2, H315 Eye Dam. 1, H318 Skin Sens. 1A, H317 Aquatic Chronic 2, H411	[1]
ethylbenzene	REACH #: 01-2119489370-35 EC: 202-849-4 CAS: 100-41-4 Index: 601-023-00-4	≥5.0 - ≤8.7	Flam. Liq. 2, H225 Acute Tox. 4, H332 STOT RE 2, H373 (hearing organs) Asp. Tox. 1, H304	[1] [2]
2-methylpropan-1-ol	REACH #: 01-2119484609-23 EC: 201-148-0 CAS: 78-83-1 Index: 603-108-00-1	≥5.0 - ≤10	Flam. Liq. 3, H226 Skin Irrit. 2, H315 Eye Dam. 1, H318 STOT SE 3, H335 STOT SE 3, H336	[1] [2]
1-methoxy-2-propanol	REACH #: 01-2119457435-35 EC: 203-539-1 CAS: 107-98-2 Index: 603-064-00-3	≥1.0 - ≤5.0	Flam. Liq. 3, H226 STOT SE 3, H336	[1] [2]
3,6-diazaoctanethylenediamin	EC: 203-950-6 CAS: 112-24-3 Index: 612-059-00-5	≤1.5	Acute Tox. 4, H312 Skin Corr. 1B, H314 Eye Dam. 1, H318 Skin Sens. 1, H317 Aquatic Chronic 3, H412	[1]
toluene	REACH #: 01-2119471310-51 EC: 203-625-9 CAS: 108-88-3 Index: 601-021-00-3	≤0.30	Flam. Liq. 2, H225 Skin Irrit. 2, H315 Repr. 2, H361d (Unborn child) STOT SE 3, H336 STOT RE 2, H373 Asp. Tox. 1, H304	[1] [2]

#### See Section 16 for the full text of the H statements declared above.

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment, are PBTs, vPvBs or Substances of equivalent concern, or have been assigned a workplace exposure limit and hence require reporting in this section.

<u>Type</u>

- [1] Substance classified with a health or environmental hazard
- [2] Substance with a workplace exposure limit
- [3] Substance meets the criteria for PBT according to Regulation (EC) No. 1907/2006, Annex XIII
- [4] Substance meets the criteria for vPvB according to Regulation (EC) No. 1907/2006, Annex XIII
- [5] Substance of equivalent concern
- [6] Additional disclosure due to company policy

Occupational exposure limits, if available, are listed in Section 8.

#### SUB codes represent substances without registered CAS Numbers.

# SECTION 4: First aid measures

4.1 Description of first aid measures				
Eye contact	: Check for and remove any contact lenses. Immediately flush eyes with running water for at least 15 minutes, keeping eyelids open. Seek immediate medical attention.			
Inhalation	<ul> <li>Remove to fresh air. Keep person warm and at rest. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel.</li> </ul>			
Skin contact	<ul> <li>Remove contaminated clothing and shoes. Wash skin thoroughly with soap and water or use recognised skin cleanser. Do NOT use solvents or thinners.</li> </ul>			
Ingestion	: If swallowed, seek medical advice immediately and show the container or label. Keep person warm and at rest. Do NOT induce vomiting.			
Protection of first-aiders	: No action shall be taken involving any personal risk or without suitable training. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Wash contaminated clothing thoroughly with water before removing it, or wear gloves.			

ects
: Causes serious eye damage.
: May cause respiratory irritation.
: Causes skin irritation. Defatting to the skin. May cause an allergic skin reaction.
: Corrosive to the digestive tract. Causes burns. May be fatal if swallowed and enter airways.
nptoms

	Eye contact	:	Adverse symptoms may include the following: pain watering redness
	Inhalation	:	Adverse symptoms may include the following: respiratory tract irritation coughing
	Skin contact	:	Adverse symptoms may include the following: pain or irritation redness dryness cracking blistering may occur
	Ingestion	:	Adverse symptoms may include the following: stomach pains nausea or vomiting
4	I.3 Indication of any immedia Notes to physician		medical attention and special treatment needed In case of inhalation of decomposition products in a fire, sym

Notes to physician	: In case of inhalation of decomposition products in a fire, symptoms may be delayed The exposed person may need to be kept under medical surveillance for 48 hours.
Specific treatments	: No specific treatment.

OF OTION OF THE USE		ginedaurea
5.1 Extinguishing media Suitable extinguishing media	:	Use dry chemical, CO <sub>2</sub> , water spray (fog) or foam.
media		
Unsuitable extinguishing media	:	Do not use water jet.
5.2 Special hazards arising fr	rom	the substance or mixture
Hazards from the substance or mixture	:	Flammable liquid and vapour. Runoff to sewer may create fire or explosion hazard. In a fire or if heated, a pressure increase will occur and the container may burst, with the risk of a subsequent explosion. This material is harmful to aquatic life with long lasting effects. Fire water contaminated with this material must be contained and prevented from being discharged to any waterway, sewer or drain.
Hazardous combustion products	:	Decomposition products may include the following materials: carbon oxides nitrogen oxides
5.3 Advice for firefighters		
Special precautions for fire fighters	- :	Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training. Move containers from fire area if this can be done without risk. Use water spray to keep fire-exposed containers cool.
Special protective equipment for fire-fighters	:	Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode. Clothing for fire-fighters (including helmets, protective boots and gloves) conforming to European standard EN 469 will provide a basic level of protection for chemical incidents.

# **SECTION 6: Accidental release measures**

6.1 Personal precautions, pro	ective equipment and emergency procedures
For non-emergency personnel	: No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilt material. Shut off all ignition sources. No flares, smoking or flames in hazard area. Do not breathe vapour or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.
For emergency responders	: If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".
6.2 Environmental precautions	: Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air). Water polluting material. May be harmful to the environment if released in large quantities.
6.3 Methods and material for o	ontainment and cleaning up
Small spill	: Stop leak if without risk. Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.

	effluent treatment plant or proceed as follows. Contain and collect spillage with non- combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations. Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilt product.
6.4 Reference to other sections	<ul> <li>See Section 1 for emergency contact information.</li> <li>See Section 8 for information on appropriate personal protective equipment.</li> <li>See Section 13 for additional waste treatment information.</li> </ul>

# **SECTION 7: Handling and storage**

The information in this section contains generic advice and guidance. The list of Identified Uses in Section 1 should be consulted for any available use-specific information provided in the Exposure Scenario(s).

#### 7.1 Precautions for safe handling

Protective measures	: Put on appropriate personal protective equipment (see Section 8). Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. Persons with a history of skin sensitization problems should not be employed in any process in which this product is used. Do not get in eyes or on skin or clothing. Do not ingest. Avoid breathing vapour or mist. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Do not enter storage areas and confined spaces unless adequately ventilated. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Store and use away from heat, sparks, open flame or any other ignition source. Use explosion-proof electrical (ventilating, lighting and material handling) equipment. Use non-sparking tools. Take precautionary measures against electrostatic discharges. To avoid fire or explosion, dissipate static electricity during transfer by earthing and bonding containers and equipment before transferring material. Empty containers retain product residue and can be hazardous. Do not reuse container.
Advice on general occupational hygiene	: Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.
7.2 Conditions for safe storage, including any incompatibilities	: Store between the following temperatures: 0 to 35°C (32 to 95°F). Store in accordance with local regulations. Store in a segregated and approved area. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Store locked up. Eliminate all ignition sources. Separate from oxidizing materials. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabelled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.
7.3 Specific end use(s)	

See Section 1.2 for Identified uses.

Recommendations	: Not available.
Industrial sector specific solutions	: Not available.

Code : 00140773 SIGMAZINC 109 HARDENER Date of issue/Date of revision : 15 January 2020

### **SECTION 8: Exposure controls/personal protection**

The information in this section contains generic advice and guidance. The list of Identified Uses in Section 1 should be consulted for any available use-specific information provided in the Exposure Scenario(s).

#### 8.1 Control parameters

#### **Occupational exposure limits**

Product/ingredient	name	E	xposure limit values	
xylene		STEL: 442 mg/m <sup>3</sup> 15 m STEL: 100 ppm 15 minu TWA: 221 mg/m <sup>3</sup> 8 hou	ce, 10/2016). Absorbed through s inutes. Form: Risk for sensitisation utes. Form: Risk for sensitisation rs. Form: Risk for sensitisation Form: Risk for sensitisation	kin.
ethylbenzene		Ministry of Labor (Franc STEL: 442 mg/m <sup>3</sup> 15 m STEL: 100 ppm 15 min TWA: 88.4 mg/m <sup>3</sup> 8 hou	ce, 10/2016). Absorbed through s inutes. Form: Risk for sensitisation utes. Form: Risk for sensitisation urs. Form: Risk for sensitisation	kin.
2-methylpropan-1-ol		Ministry of Labor (Fran TWA: 150 mg/m³ 8 hou	Form: Risk for sensitisation ce, 10/2016). rs. Form: Risk for sensitisation Form: Risk for sensitisation	
1-methoxy-2-propanol		Ministry of Labor (Franc STEL: 375 mg/m <sup>3</sup> 15 m STEL: 100 ppm 15 min TWA: 188 mg/m <sup>3</sup> 8 hou	ce, 10/2016). Absorbed through s inutes. Form: Risk for sensitisation utes. Form: Risk for sensitisation rs. Form: Risk for sensitisation Form: Risk for sensitisation	kin.
toluene		Ministry of Labor (Franc STEL: 384 mg/m <sup>3</sup> 15 m STEL: 100 ppm 15 min TWA: 76.8 mg/m <sup>3</sup> 8 hou	<b>ce, 10/2016). Absorbed through s</b> inutes. Form: Risk for sensitisation utes. Form: Risk for sensitisation irs. Form: Risk for sensitisation Form: Risk for sensitisation	kin.
Recommended monitoring : procedures	atmosphere or b of the ventilation protective equip the following: En the assessment limit values and atmospheres - G exposure to che (Workplace atm for the measure	piological monitoring may or other control measure ment. Reference should uropean Standard EN 689 of exposure by inhalation measurement strategy) E Guide for the application a mical and biological agen ospheres - General requi ment of chemical agents)	posure limits, personal, workplace be required to determine the effecti s and/or the necessity to use respir be made to monitoring standards, s 0 (Workplace atmospheres - Guidar to chemical agents for comparison European Standard EN 14042 (Wor nd use of procedures for the assess ts) European Standard EN 482 rements for the performance of pro Reference to national guidance tion of hazardous substances will a	atory such as nce for with kplace sment of cedures
2 Exposure controls				
Appropriate engineering : controls	ventilation or oth contaminants be also need to kee	ner engineering controls to elow any recommended o	rocess enclosures, local exhaust b keep worker exposure to airborne r statutory limits. The engineering o ncentrations below any lower explos upment.	controls
ndividual protection measures				
Hygiene measures :	eating, smoking Appropriate tech Contaminated w contaminated cl	and using the lavatory an nniques should be used to vork clothing should not be	Ily after handling chemical products d at the end of the working period. remove potentially contaminated of allowed out of the workplace. Wa sure that eyewash stations and safe tion.	lothing. ash
		English (GB)	lyony Coast	7/1/

English (GB)

Ivory Coast 7

# SECTION 8: Exposure controls/personal protection

Eye/face protection Skin protection	Chemical splash goggles and face shield.	
Hand protection	Chemical-resistant, impervious gloves complying with an approved standar be worn at all times when handling chemical products if a risk assessment his is necessary. Considering the parameters specified by the glove manu- sheck during use that the gloves are still retaining their protective properties should be noted that the time to breakthrough for any glove material may be lifferent for different glove manufacturers. In the case of mixtures, consist several substances, the protection time of the gloves cannot be accurately When prolonged or frequently repeated contact may occur, a glove with a class of 6 (breakthrough time greater than 480 minutes according to EN 37 ecommended. When only brief contact is expected, a glove with a protection of 2 or higher (breakthrough time greater than 30 minutes according to EN ecommended. The user must check that the final choice of type of glove or handling this product is the most appropriate and takes into account the conditions of use, as included in the user's risk assessment.	indicates ifacturer, s. It be ing of estimated. protection 74) is on class 374) is selected
Gloves	utyl rubber	
Body protection	Personal protective equipment for the body should be selected based on the being performed and the risks involved and should be approved by a speci- before handling this product. When there is a risk of ignition from static ele- vear anti-static protective clothing. For the greatest protection from static of clothing should include anti-static overalls, boots and gloves. Refer to Euro Standard EN 1149 for further information on material and design requirem- est methods.	alist ctricity, discharges, opean
Other skin protection	Appropriate footwear and any additional skin protection measures should be relected based on the task being performed and the risks involved and sho approved by a specialist before handling this product.	
Respiratory protection	Respirator selection must be based on known or anticipated exposure leve nazards of the product and the safe working limits of the selected respirato workers are exposed to concentrations above the exposure limit, they must appropriate, certified respirators. Use a properly fitted, air-purifying or air-fe espirator complying with an approved standard if a risk assessment indica necessary.	r. lf :use ed
Environmental exposure controls	Emissions from ventilation or work process equipment should be checked they comply with the requirements of environmental protection legislation. cases, fume scrubbers, filters or engineering modifications to the process existence will be necessary to reduce emissions to acceptable levels.	In some

### **SECTION 9: Physical and chemical properties**

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

Appearance	
Physical state	: Liquid.
Colour	: Yellow.
Odour	: Amine-like.
Odour threshold	: Not available.
pH	insoluble in water.
Melting point/freezing point	: May start to solidify at the following temperature: 12°C (53.6°F) This is based on data for the following ingredient: 3,6-diazaoctanethylenediamin. Weighted average: -85.58°C (-122°F)
Initial boiling point and boiling range	: >37.78°C
Flash point	: Closed cup: 26°C
Evaporation rate	: Highest known value: 0.84 (ethylbenzene) Weighted average: 0.77compared with butyl acetate

Conforms to Regulation (EC) No. 1907/2006 (REACH), Annex II					
Code : 00140773	Date of issue/Date of revision : 15 January 2020				
SIGMAZINC 109 HARDENER					
<b>SECTION 9: Physical ar</b>	d chemical properties				
Flammability (solid, gas)	: liquid				
Upper/lower flammability or explosive limits	: Greatest known range: Lower: 1.48% Upper: 13.74% (1-methoxy-2-propanol)				
Vapour pressure	: Highest known value: <1.6 kPa (<12 mm Hg) (at 20°C) (2-methylpropan-1-ol). Weighted average: 0.7 kPa (5.25 mm Hg) (at 20°C)				
Vapour density	: Highest known value: 5.04 (Air = 1) (3,6-diazaoctanethylenediamin). Weighted average: 3.58 (Air = 1)				
Relative density	: 0.91				
Solubility(ies)	: Insoluble in the following materials: cold water.				
Partition coefficient: n-octanol/ water	: Not applicable.				
Auto-ignition temperature	: 290°C				
Decomposition temperature	: Stable under recommended storage and handling conditions (see Section 7).				
Viscosity	: Kinematic (40°C): <0.14 cm²/s				
Explosive properties	: Product does not present an explosion hazard.				
Oxidising properties	: Product does not present an oxidizing hazard.				

#### 9.2 Other information

No additional information.

# **SECTION 10: Stability and reactivity**

10.1 Reactivity	: No specific test data related to reactivity available for this product or its ingredients.	
10.2 Chemical stability	: The product is stable.	
10.3 Possibility of hazardous reactions	: Under normal conditions of storage and use, hazardous reactions will not occur.	
10.4 Conditions to avoid	: When exposed to high temperatures may produce hazardous decomposition products. Refer to protective measures listed in sections 7 and 8.	
10.5 Incompatible materials	: Keep away from the following materials to prevent strong exothermic reactions: oxidising agents, strong alkalis, strong acids.	
10.6 Hazardous decomposition products	: Evolves hydrogen on contact with water. Depending on conditions, decomposition products may include the following materials: carbon oxides nitrogen oxides	

# **SECTION 11: Toxicological information**

### 11.1 Information on toxicological effects

#### Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
xylene	LD50 Dermal	Rabbit	>1.7 g/kg	-
	LD50 Oral	Rat	4.3 g/kg	-
ethylbenzene	LC50 Inhalation Vapour	Rat	17.8 mg/l	4 hours
	LD50 Dermal	Rabbit	17.8 g/kg	-
	LD50 Oral	Rat	3.5 g/kg	-
2-methylpropan-1-ol	LC50 Inhalation Vapour	Rat	24.6 mg/l	4 hours
	LD50 Dermal	Rabbit	2460 mg/kg	-
	LD50 Oral	Rat	2830 mg/kg	-
	English (GB)	 Iv	ory Coast	9/10

Conforms to Regulation (EC) No. 1907/20	06 (REACH),	Annex II						
Code : 00140773	140773Date of issue/Date of revision: 15 January 2020							
SIGMAZINC 109 HARDENER								
SECTION 11: Toxicological i	nformatio	on						
1-methoxy-2-propanol	LD50 Dern	nal		Rab		13 g/kg		-
	LD50 Oral			Rat		5.2 g/kg		-
3,6-diazaoctanethylenediamin	LD50 Dern	nal		Rab		805 mg/l		-
	LD50 Oral			Rat		2500 mg	l/kg	-
toluene		ation Vapou	r	Rat		49 g/m³		4 hours
	LD50 Dern	nal		Rab		8.39 g/kg		-
	LD50 Oral			Rat		5580 mg	/кд	-
Conclusion/Summary : There a	re no data ava	ailable on the	e mix	ture its	elf.			
Acute toxicity estimates								
Route					ATE value			
Dermal		2416.8 mg/kg						
Inhalation (vapours)				22.41	mg/l			
Irritation/Corrosion								
Product/ingredient name	Res	sult	Spe	cies	Score	Expo	sure	Observation
xylene	Skin - Mode	rate irritant	ate irritant Rabbit		-	24 hours 500 mg		-
Conclusion/Summary								
Skin : There ar	e no data ava	ilable on the	mixt	ure itse	elf.			
Eyes : There ar	e no data ava	ilable on the	mixt	ure itse	elf.			
<b>Respiratory</b> : There ar	ilable on the	mixt	ure itse	elf.				
<u>Sensitisation</u>								
Product/ingredient name			Route of exposure		Species		Result	
Fatty acids, C18-unsatd., dimers, reaction with polyethylenepolyamines	n products	skin	Mc		Mouse		Sensitisi	ng
3,6-diazaoctanethylenediamin		skin		Gui	Guinea pig Sensitisir		ng	

,			
Conclusion/Summary			
Skin	: There are no data av	ailable on the mixtu	e itself.
Respiratory	: There are no data av	ailable on the mixtu	re itself.
<u>Mutagenicity</u>			
<b>Conclusion/Summary</b>	: There are no data av	ailable on the mixtu	e itself.
Carcinogenicity			
<b>Conclusion/Summary</b>	: There are no data av	ailable on the mixtu	re itself.
Reproductive toxicity			
<b>Conclusion/Summary</b>	: There are no data av	ailable on the mixtu	e itself.
<b>Teratogenicity</b>			
<b>Conclusion/Summary</b>	: There are no data av	ailable on the mixtu	re itself.
Specific target organ toxic	: <mark>ity (single exposure)</mark>		

Product/ingredient name	Category	Route of exposure	Target organs
xylene 2-methylpropan-1-ol	Category 3	Not applicable. Not applicable. Not applicable.	Respiratory tract irritation Narcotic effects Respiratory tract irritation
1-methoxy-2-propanol toluene	Category 3	Not applicable. Not applicable.	Narcotic effects Narcotic effects

Specific target organ toxicity (repeated exposure)

### **SECTION 11: Toxicological information**

Product/ingredient name	Category	Route of exposure	Target organs
ethylbenzene toluene	•••	Not determined Not determined	hearing organs Not determined

Aspiration hazard

Aspiration hazard			
Product/i	ng	redient name	Result
xylene ethylbenzene toluene			ASPIRATION HAZARD - Category 1 ASPIRATION HAZARD - Category 1 ASPIRATION HAZARD - Category 1
Information on likely routes of exposure	:	Not available.	
Potential acute health effect	s		
Inhalation	:	May cause respiratory irritation.	
Ingestion	:	Corrosive to the digestive tract. C airways.	Causes burns. May be fatal if swallowed and enters
Skin contact	1	Causes skin irritation. Defatting t	o the skin. May cause an allergic skin reaction.
Eye contact	1	Causes serious eye damage.	
Symptoms related to the physical sectors and the sector sectors and the sector sector sectors and the sector sectors and the sector sectors are sectors and the sectors are se	ysi	cal, chemical and toxicological	<u>characteristics</u>
Inhalation	:	Adverse symptoms may include t respiratory tract irritation coughing	the following:
Ingestion	:	Adverse symptoms may include t stomach pains nausea or vomiting	the following:
Skin contact	:	Adverse symptoms may include to pain or irritation redness dryness cracking blistering may occur	the following:
Eye contact	:	Adverse symptoms may include t pain watering redness	the following:
Delayed and immediate effe	cts	as well as chronic effects from	short and long-term exposure
Short term exposure Potential immediate effects	:	Not available.	
Potential delayed effects Long term exposure	:	Not available.	
Potential immediate effects	:	Not available.	
Potential delayed effects	:	Not available.	
Potential chronic health effe	ect	2	
Not available.			
Conclusion/Summary		Not available.	
General	-	Prolonged or repeated contact ca	an defat the skin and lead to irritation, cracking and/ severe allergic reaction may occur when v levels.
Carcinogenicity		No known significant effects or cr	itical hazards

- **Carcinogenicity** : No known significant effects or critical hazards.
  - English (GB)

# SECTION 11: Toxicological information

Mutagenicity	: No known significant effects or critical hazards.
Teratogenicity	: No known significant effects or critical hazards.
<b>Developmental effects</b>	: No known significant effects or critical hazards.
Fertility effects	: No known significant effects or critical hazards.
Other information	: Not available.

There are no data available on the mixture itself. The mixture has been assessed following the conventional method of the CLP Regulation (EC) No 1272/2008 and is classified for toxicological properties accordingly. See Sections 2 and 3 for details.

Exposure to component solvent vapour concentrations in excess of the stated occupational exposure limit may result in adverse health effects such as mucous membrane and respiratory system irritation and adverse effects on the kidneys, liver and central nervous system. Symptoms and signs include headache, dizziness, fatigue, muscular weakness, drowsiness and, in extreme cases, loss of consciousness.

Solvents may cause some of the above effects by absorption through the skin. Repeated or prolonged contact with the mixture may cause removal of natural fat from the skin, resulting in non-allergic contact dermatitis and absorption through the skin.

If splashed in the eyes, the liquid may cause irritation and reversible damage.

Ingestion may cause nausea, diarrhea and vomiting.

This takes into account, where known, delayed and immediate effects and also chronic effects of components from short-term and long-term exposure by oral, inhalation and dermal routes of exposure and eye contact.

Contains Fatty acids, C18-unsatd., dimers, reaction products with polyethylenepolyamines, 3,6-diazaoctanethylenediamin. May produce an allergic reaction.

# **SECTION 12: Ecological information**

#### 12.1 Toxicity

Product/ingredient name	Result	Species	Exposure
Fatty acids, C18-unsatd., dimers, reaction products with polyethylenepolyamines	EC50 4.11 mg/l Fresh water	Algae	72 hours
ethylbenzene	Acute LC50 150 to 200 mg/l Fresh water	Fish	96 hours
2-methylpropan-1-ol	Acute EC50 1100 mg/l	Daphnia	48 hours
1-methoxy-2-propanol	Acute LC50 23300 mg/l Acute LC50 >4500 mg/l Fresh water	Daphnia Fish	48 hours 96 hours

**Conclusion/Summary** 

: There are no data available on the mixture itself.

#### 12.2 Persistence and degradability

Product/ingredient name	Test	Result	Dose	Inoculum
Fatty acids, C18-unsatd., dimers, reaction products with polyethylenepolyamines	-	15 % - 28 days	-	-

**Conclusion/Summary** : There are no data available on the mixture itself.

Product/ingredient name	Aquatic half-life	Photolysis	Biodegradability
xylene Fatty acids, C18-unsatd., dimers, reaction products with polyethylenepolyamines	-	-	Readily Not readily
ethylbenzene toluene	-	-	Readily Readily

#### 12.3 Bioaccumulative potential

# **SECTION 12: Ecological information**

Product/ingredient name	LogPow	BCF	Potential
xylene	3.16	7.4 to 18.5	low
ethylbenzene	3.15	79.43	low
2-methylpropan-1-ol	0.76	-	low
3,6-diazaoctanethylenediamin	-1.66 to -1.4	-	low
toluene	2.73	8.32	low

12.4 Mobility in soil	
Soil/water partition coefficient (K <sub>oc</sub> )	: Not available.
Mobility	: Not available.

#### 12.5 Results of PBT and vPvB assessment

This mixture does not contain any substances that are assessed to be a PBT or a vPvB.

**12.6 Other adverse effects** : No known significant effects or critical hazards.

## **SECTION 13: Disposal considerations**

The information in this section contains generic advice and guidance. The list of Identified Uses in Section 1 should be consulted for any available use-specific information provided in the Exposure Scenario(s).

#### 13.1 Waste treatment methods

Product	
Methods of disposal	: The generation of waste should be avoided or minimised wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction.
Hazardous waste	: Yes.

European waste catalogue (EWC)

Waste code         Waste designation	
08 01 11*	waste paint and varnish containing organic solvents or other hazardous substances

#### Packaging

Methods of disposal

: The generation of waste should be avoided or minimised wherever possible. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible.

Type of packaging	European waste catalogue (EWC)
Container	15 01 06 mixed packaging
Special precautions	: This material and its container must be disposed of in a safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Vapour from product residues may create a highly flammable or explosive atmosphere inside the container. Do not cut, weld or grind used containers unless they have been cleaned thoroughly internally. Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers.

Date of issue/Date of revision

## **SECTION 14: Transport information**

	ADR/RID	IMDG	ΙΑΤΑ
14.1 UN number	UN1263	UN1263	UN1263
14.2 UN proper shipping name	PAINT RELATED MATERIAL	PAINT RELATED MATERIAL	PAINT RELATED MATERIAL
14.3 Transport hazard class(es)	3	3	3
14.4 Packing group	III	Ш	III
14.5 Environmental hazards	No.	No.	No.
Marine pollutant substances	Not applicable.	Not applicable.	Not applicable.

#### **Additional information**

ADR/RID	: None identified.
Tunnel code	: (D/E)
IMDG	: None identified.
IATA	: None identified.

**14.6 Special precautions for user**: **Transport within user's premises:** always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.

#### 14.7 Transport in bulk according to Annex II of Marpol and the IBC Code

## **SECTION 15: Regulatory information**

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

EU Regulation (EC) No. 1907/2006 (REACH)

Annex XIV - List of substances subject to authorisation

: Not applicable.

Annex XIV

None of the components are listed.

Substances of very high concern

None of the components are listed.

Not listed.

# SECTION 15: Regulatory information

5		5		
Social Security Code, Articles L 461-1 to L 461-7	:	xylene ethylbenzene 2-methylpropan-1-ol 1-methoxypropan-2-ol toluene	RG 4bis, RG 84 RG 84 RG 84 RG 84 RG 4bis, RG 84	[1]
		Surveillance médicale spéciale selon l'arrêté du 11 j [1] Benzène et homologues Pour les applications des peintures et vernis par pulv		
Reinforced medical surveillance	:	Act of July 11, 1977 determining the list of activities v surveillance: not applicable	vhich require reir	nforced medical
References	:			
15.2 Chemical safety assessment	:	No Chemical Safety Assessment has been carried o	ut.	

# **SECTION 16: Other information**

Indicates information that has cl	hanged fr	om previously issued version.		
statements	H225 H226 H304 H312 H314 H315 H317 H318 H319 H332 H335 H336 H361d H373 H411 H412	Highly flammable liquid and vapou Flammable liquid and vapou May be fatal if swallowed and enter Harmful in contact with skin. Causes severe skin burns and eye Causes skin irritation. May cause an allergic skin reaction Causes serious eye damage. Causes serious eye damage. Causes serious eye irritation. Harmful if inhaled. May cause respiratory irritation. May cause drowsiness or dizziness Suspected of damaging the unborn May cause damage to organs thro Toxic to aquatic life with long lastin Harmful to aquatic life with long lastin	rs airways. damage. n. s. n child. ugh prolonged or repeated expo g effects.	osure.
		English (GB)	Ivory Coast	15/16

Conforms to Regulation (EC) No. 1907/2006 (REACH), Annex II					
Code : 00140773		Date of issue/Date of revision : 15 January 2020			
SIGMAZINC 109 HARDENER					
SECTION 16: Other information					
Full text of classifications [CLP/GHS]	: Acute Tox. 4, H312 Acute Tox. 4, H332 Aquatic Chronic 2, H411 Aquatic Chronic 3, H412 Asp. Tox. 1, H304 Eye Dam. 1, H318 Eye Irrit. 2, H319 Flam. Liq. 2, H225 Flam. Liq. 3, H226 Repr. 2, H361d Skin Corr. 1B, H314 Skin Irrit. 2, H315 Skin Sens. 1, H317 Stin Sens. 1A, H317 STOT RE 2, H373 STOT SE 3, H335 STOT SE 3, H336	ACUTE TOXICITY (dermal) - Category 4 ACUTE TOXICITY (inhalation) - Category 4 LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 2 LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 3 ASPIRATION HAZARD - Category 1 SERIOUS EYE DAMAGE/EYE IRRITATION - Category 1 SERIOUS EYE DAMAGE/EYE IRRITATION - Category 2 FLAMMABLE LIQUIDS - Category 2 FLAMMABLE LIQUIDS - Category 3 REPRODUCTIVE TOXICITY (Unborn child) - Category 2 SKIN CORROSION/IRRITATION - Category 1B SKIN CORROSION/IRRITATION - Category 2 SKIN SENSITISATION - Category 1 SKIN SENSITISATION - Category 1 SKIN SENSITISATION - Category 1A SPECIFIC TARGET ORGAN TOXICITY - REPEATED EXPOSURE - Category 2 SPECIFIC TARGET ORGAN TOXICITY - SINGLE EXPOSURE (Respiratory tract irritation) - Category 3 SPECIFIC TARGET ORGAN TOXICITY - SINGLE EXPOSURE (Narcotic effects) - Category 3			
<u>History</u> Date of issue/ Date of revision	: 15 January 2020				
Date of previous issue	: 25 September 2019				
Prepared by	: EHS				
Version	: 6.02				
Diaclaimar					

#### **Disclaimer**

The information contained in this data sheet is based on present scientific and technical knowledge. The purpose of this information is to draw attention to the health and safety aspects concerning the products supplied by us, and to recommend precautionary measures for the storage and handling of the products. No warranty or guarantee is given in respect of the properties of the products. No liability can be accepted for any failure to observe the precautionary measures described in this data sheet or for any misuse of the products.