SAFETY DATA SHEET

Date of issue/Date of revision : 14 May 2024

Version : 7.01



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

Product name	: SIGMAZINC 105 HARDENER
Product code	: 00332383

Other means of identification

Not available.

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

Product use Use of the substance/ mixture	 Professional applications, Used by spraying. 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

1.4 Emergency telephone : ORFILA (INRS) 0033 (0)1 45 42 59 59 / 00225 21 75 04 10 number

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture Product definition : Mixture <u>Classification according to Regulation (EC) No. 1272/2008 [CLP/GHS]</u>

Flam. Liq. 2, H225 Skin Irrit. 2, H315 Eye Irrit. 2, H319 STOT RE 1, H372 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 Hazard pictograms



Signal word

: Danger

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SECTION 2: Hazards identification

SECTION 2. Hazarus	
Hazard statements	 Highly flammable liquid and vapour. Causes skin irritation. Causes serious eye irritation. Causes damage to organs through prolonged or repeated exposure. Harmful to aquatic life with long lasting effects.
Precautionary statements	
Prevention	: Wear protective gloves. Wear eye or face protection. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Avoid release to the environment. Do not breathe vapour.
Response	: Get medical advice/attention if you feel unwell.
Storage	: Not applicable.
Disposal	 Dispose of contents and container in accordance with all local, regional, national and international regulations. P280, P210, P273, P260, P314, P501
Hazardous ingredients	: crystalline silica, respirable powder (<10 microns)
Supplemental label elements	: Contains ethylenediamine and N,N'-ethane-1,2-diylbis(12-hydroxyoctadecan-1-amide). May produce an allergic reaction.
Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles	: Not applicable.
Special packaging requiren	<u>ients</u>
Containers to be fitted with child-resistant fastenings	: Not applicable.
Tactile warning of danger	: 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	: Prolonged or repeated contact may dry skin and cause irritation.

SECTION 3: Composition/information on ingredients

3.2 Mixtures	: Mixture					
Product/ingredient name	Identifiers	%	Classification	Lİ	pecific Conc. mits, M-factors nd ATEs	Туре
ørystalline silica, respirable powder (<10 microns)	EC: 238-878-4 CAS: 14808-60-7	≥10 - ≤25	STOT RE 1, H372 (inhalation)	-		[1] [2]
propan-2-ol	REACH #: 01-2119457558-25 EC: 200-661-7 CAS: 67-63-0 Index: 603-117-00-0	≥5.0 - ≤10	Flam. Liq. 2, H225 Eye Irrit. 2, H319 STOT SE 3, H336	-		[1] [2]
	<u> </u>	English	(GB)	Ivory C	oast	2/15

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 SECTION 3: Composition/information on ingredients
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xylene	REACH #: 01-2119488216-32 EC: 215-535-7 CAS: 1330-20-7	≥5.0 - ≤10	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 Aquatic Chronic 3, H412	ATE [Dermal] = 1700 mg/kg ATE [Inhalation (vapours)] = 11 mg/l	[1] [2]
2,4,6-tris (dimethylaminomethyl) phenol	REACH #: 01-2119560597-27 EC: 202-013-9 CAS: 90-72-2 Index: 603-069-00-0	≥1.0 - <3.0	Acute Tox. 4, H302 Acute Tox. 4, H312 Skin Corr. 1C, H314 Eye Dam. 1, H318	ATE [Oral] = 1200 mg/ kg ATE [Dermal] = 1280 mg/kg	[1]
zinc oxide	REACH #: 01-2119463881-32 EC: 215-222-5 CAS: 1314-13-2 Index: 030-013-00-7	≥0.30 - <2.5	Aquatic Acute 1, H400 Aquatic Chronic 1, H410	M [Acute] = 1 M [Chronic] = 1	[1]
ethylbenzene	REACH #: 01-2119489370-35 EC: 202-849-4 CAS: 100-41-4 Index: 601-023-00-4	≥1.0 - ≤5.0	Flam. Liq. 2, H225 Acute Tox. 4, H332 STOT RE 2, H373 (hearing organs) Asp. Tox. 1, H304 Aquatic Chronic 3, H412	ATE [Inhalation (vapours)] = 17.8 mg/l	[1] [2]
ethylenediamine	REACH #: 01-2119480383-37 EC: 203-468-6 CAS: 107-15-3 Index: 612-006-00-6	≤0.30	Flam. Liq. 3, H226 Acute Tox. 4, H302 Acute Tox. 4, H312 Skin Corr. 1B, H314 Eye Dam. 1, H318 Resp. Sens. 1, H334 Skin Sens. 1, H317	ATE [Oral] = 500 mg/ kg ATE [Dermal] = 1100 mg/kg	[1] [2] [3]
N,N'-ethane-1,2-diylbis (12-hydroxyoctadecan- 1-amide)	REACH #: 01-2119978265-26 EC: 204-613-6 CAS: 123-26-2	≤0.30	Skin Sens. 1B, H317 Aquatic Chronic 3, H412 See Section 16 for the full text of the H statements declared above.	-	[1] [2]

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.

Xylene: Several REACH registrations cover the REACH registered substance with xylene isomers, ethylbenzene (and toluene). The other REACH Registrations include: 01-2119555267-33 reaction mass of ethylbenzene and m-xylene and p-xylene, 01-2119486136-34 Aromatic hydrocarbons, C8, 01-2119539452-40 reaction mass of ethylbenzene and xylene. Type

[1] Substance classified with a health or environmental hazard

[2] Substance with a workplace exposure limit

[3] Substance of equivalent concern

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

SUB codes represent substances without registered CAS Numbers.

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SECTION 4: First aid measures

4.1 Description of first sid m	
4.1 Description of first aid m	
Eye contact	: Remove contact lenses, irrigate copiously with clean, fresh water, holding the eyelids apart for at least 10 minutes and seek immediate medical advice.
Inhalation	: 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.
Skin contact	: Remove contaminated clothing and shoes. Wash skin thoroughly with soap and water or use recognised skin cleanser. Do NOT use solvents or thinners.
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. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation.
4.2 Most important sympton	ns and effects, both acute and delayed
Potential acute health effect	<u>ets</u>
Eye contact	: Causes serious eye irritation.
Inhalation	: No known significant effects or critical hazards.
Skin contact	: Causes skin irritation. Defatting to the skin.
Ingestion	: No known significant effects or critical hazards.
Over-exposure signs/symp	<u>itoms</u>
Eye contact	: Adverse symptoms may include the following: pain or irritation watering redness
Inhalation	: No specific data.
Skin contact	: Adverse symptoms may include the following: irritation redness dryness cracking
Ingestion	: No specific data.
4.3 Indication of any immedi	iate medical attention and special treatment needed
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.
SECTION 5: Firefigh	ting measures

5.1 Extinguishing media Suitable extinguishing media	: Use dry chemical, CO ₂ , water spray (fog) or foam.
Unsuitable extinguishing media	: Do not use water jet.
5.2 Special bazards arising fr	rom the substance or mixture

5.2 Special hazards arising from the substance or mixture

Hazards from the	: Highly flammable liquid and vapour. Runoff to sewer may create fire or explosion
substance or mixture	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.

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SECTION 5: Firefighting measures

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Hazardous combustion products	 Decomposition products may include the following materials: carbon oxides nitrogen oxides metal oxide/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	otective 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. Avoid breathing 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	containment 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.
Large spill	: Stop leak if without risk. Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Approach the release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an 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
 See Section 1 for emergency contact information.

sections See Section 1 for emergency contact mormation. See Section 8 for information on appropriate personal protective equipment. See Section 13 for additional waste treatment information.

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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). Do not breathe vapour or mist. Do not ingest. Avoid contact with eyes, skin and clothing. Avoid release to the environment. 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 only non-sparking tools. Take precautionary measures against electrostatic discharges. 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. Eliminate all ignition sources. Separate from oxidising 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.

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				
rystalline silica, respirable powder (<10 microns)	ACGIH TLV (United Sta	tes, 7/2023). [Silica, crystalline	e]			
propan-2-ol	TWA: 0.025 mg/m ³ 8 hours. Form: Respirable ACGIH TLV (United States, 7/2023).					
	STEL: 400 ppm 15 min TWA: 200 ppm 8 hours					
xylene		2). [xylene, mixed isomers] Ab	sorbed			
	through skin. STEL: 442 mg/m ³ 15 m STEL: 100 ppm 15 min TWA: 221 mg/m ³ 8 hou TWA: 50 ppm 8 hours.	utes.				
ethylbenzene	EU OEL (Europe, 1/202 STEL: 884 mg/m ³ 15 m STEL: 200 ppm 15 min					
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ethylenediamine N,N'-ethane-1,2-diylbis(12-hy 1-amide)	droxyoctadecan-	TWA: 442 mg/m ³ 8 hours. TWA: 100 ppm 8 hours. ACGIH TLV (United States, 7/2023). Absorbed through skin. TWA: 10 ppm 8 hours. ACGIH TLV (United States). TWA: 3 mg/m ³ Form: Respirable TWA: 10 mg/m ³ Form: Total dust
Recommended monitoring procedures	Standard EN (by inhalation to strategy) Euro application an biological age requirements agents) Refer	build be made to monitoring standards, such as the following: European 689 (Workplace atmospheres - Guidance for the assessment of exposure o chemical agents for comparison with limit values and measurement opean Standard EN 14042 (Workplace atmospheres - Guide for the d use of procedures for the assessment of exposure to chemical and nts) European Standard EN 482 (Workplace atmospheres - General for the performance of procedures for the measurement of chemical rence to national guidance documents for methods for the determination substances will also be required.
2 Exposure controls		
ppropriate engineering ontrols	other engineer recommended	adequate ventilation. Use process enclosures, local exhaust ventilation ring controls to keep worker exposure to airborne contaminants below ar d or statutory limits. The engineering controls also need to keep gas, t concentrations below any lower explosive limits. Use explosion-proof upment.
ndividual protection measur	res	
Hygiene measures	eating, smokir Appropriate te Wash contam	forearms and face thoroughly after handling chemical products, before ng and using the lavatory and at the end of the working period. echniques should be used to remove potentially contaminated clothing. inated clothing before reusing. Ensure that eyewash stations and safety close to the workstation location.
Eye/face protection <u>Skin protection</u>	: Chemical spla	ish goggles.
Hand protection	worn at all tim necessary. Ca during use tha noted that the glove manufac protection time (breakthrough When only brid (breakthrough The user mus product is the as included in	stant, impervious gloves complying with an approved standard should be es when handling chemical products if a risk assessment indicates this i onsidering the parameters specified by the glove manufacturer, check at the gloves are still retaining their protective properties. It should be time to breakthrough for any glove material may be different for differen cturers. In the case of mixtures, consisting of several substances, the e of the gloves cannot be accurately estimated. When prolonged or eated contact may occur, a glove with a protection class of 6 in time greater than 480 minutes according to EN 374) is recommended. ef contact is expected, a glove with a protection class of 2 or higher in time greater than 30 minutes according to EN 374) is recommended. t check that the final choice of type of glove selected for handling this most appropriate and takes into account the particular conditions of use the user's risk assessment.
Gloves	: For prolonged	or repeated handling, use the following type of gloves:
	May be used: Recommende	nitrile rubber d: butyl rubber, polyvinyl alcohol (PVA), Viton®
Body protection	performed and handling this p static protectiv should include	ective equipment for the body should be selected based on the task bein d the risks involved and should be approved by a specialist before product. When there is a risk of ignition from static electricity, wear anti- ve clothing. For the greatest protection from static discharges, clothing a anti-static overalls, boots and gloves. Refer to European Standard EN er information on material and design requirements and test methods.

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Conforms to Regulation (EC) No. 1907/2006 (REACH), Annex II, as amended by Commission Regulation (EU) 2020/878						
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Other skin protection	Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.					
Respiratory protection	1 · · · · · · · · · · · · · · · · · · ·					
Environmental exposure controls	: Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.					

SECTION 9: Physical and chemical properties

The conditions of measurement of all properties are at standard temperature and pressure unless otherwise indicated.

9.1 Information on basic physical and chemical properties

0.1 Information on basic physic	al ar	nd chemical propert	ies					
<u>Appearance</u>								
Physical state	:	Liquid.						
Colour	:	Colourless.	olourless.					
Odour	1	Amine-like.						
Odour threshold	:	Not available.						
Melting point/freezing point		on data for the follow	May start to solidify at the following temperature: <-20.15°C (<-4.3°F) This is based on data for the following ingredient: 2,4,6-tris(dimethylaminomethyl)phenol. Weighted average: -80.15°C (-112.3°F)					
Initial boiling point and boiling range	:	>37.78°C						
Flammability	:	Not available.						
Upper/lower flammability or explosive limits	:	Greatest known rang	e: Lower:	2% Up	per: 12% (Iso	propyl al	cohol)	
Flash point	:	Ølosed cup: 17°C						
Auto-ignition temperature	:	Ingredient name		°C	°F		Method	
		2,4,6-tris(dimethylaminon	nethyl)phene	ol 382	719.6	E	EU A.15	
Decomposition temperature	:	Stable under recomn	nended st	orage a	nd handling co	onditions	(see Sec	tion 7).
рН		Not applicable. insolu		-	C C		,	,
Viscosity	:	Kinematic (40°C): >2	21 mm²/s					
Solubility(ies)	:							
Media		Result						
cold water		Not soluble						
Partition coefficient: n-octano	1 :	Not applicable.						
Vapour pressure	:		Vapour Pressure at 20°C Vapour pressure			sure at 50°C		
		Ingredient name	mm Hg	kPa	Method	mm Hg	kPa	Method
		Isopropyl alcohol	33.00268	4.4		-		1
			1		1	1	1	1

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Particle characteristics								
Oxidising properties	:	Product does not pre	sent an o	xidizing h	azard.			
Explosive properties		: The product itself is not explosive, but the formation of an explosible mixture of vapour or dust with air is possible.						
Vapour density		Highest known value: 3.7 (Air = 1) (xylene). Weighted average: 2.85 (Air = 1)						
Relative density	:	1.64						
Evaporation rate		Highest known value butyl acetate	: 1.7 (Isop	oropyl alco	ohol) Weighte	ed averag	je: 1.27cc	ompared with
			00100200					

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SECTION 9: Physica	I and chemical properties
Median particle size	: Not applicable.
9.2 Other information	
No additional information.	
SECTION 10: Stabilit	y 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.

· · · ·	ing on conditions, decomposition products may include the following materials: oxides nitrogen oxides metal oxide/oxides
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SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
sopropyl alcohol	LC50 Inhalation Vapour	Rat	72600 mg/m ³	4 hours
	LD50 Dermal	Rabbit	12800 mg/kg	-
	LD50 Oral	Rat	5045 mg/kg	-
xylene	LD50 Dermal	Rabbit	1.7 g/kg	-
	LD50 Oral	Rat	4.3 g/kg	-
2,4,6-tris(dimethylaminomethyl)phenol	LD50 Dermal	Rabbit	1.28 g/kg	-
	LD50 Dermal	Rat	1280 mg/kg	-
	LD50 Oral	Rat	1200 mg/kg	-
zinc oxide	LC50 Inhalation Dusts and	Rat	>5700 mg/m ³	4 hours
	mists			
	LD50 Dermal	Rat	>2000 mg/kg	-
	LD50 Oral	Rat	>5000 mg/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	-
ethylenediamine	LD50 Dermal	Rabbit	0.73 g/kg	-
-	LD50 Oral	Rat	0.5 g/kg	-
N,N'-ethane-1,2-diylbis	LC50 Inhalation Dusts and	Rat	>5.11 mg/l	4 hours
(12-hydroxyoctadecan-1-amide)	mists		_	
	LD50 Dermal	Rat	>2000 mg/kg	-
	LD50 Oral	Rat	>2000 mg/kg	-

Conclusion/Summary

: There are no data available on the mixture itself.

Irritation/Corrosion

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SECTION 11: Toxicological information

	<u> </u>					
Product/ingredie	nt name	Result	Species	Score	Exposure	Observation
xylene		Skin - Moderate irritant	Rabbit	-	24 hours 500 mg	-
2,4,6-tris(dimethylaminom	ethyl)phenol	Skin - Visible necrosis	Rabbit	-	4 hours	7 days
Conclusion/Summary						
Skin	: There are	no data available on the r	nixture itself	-		
Eyes	: There are	no data available on the r	nixture itself			
Respiratory	: There are	no data available on the r	nixture itself	-		
Sensitisation						
Conclusion/Summary						
Skin	: There are	e no data available on the	mixture itsel	f.		
Respiratory	: There are	e no data available on the	mixture itsel	f.		
<u>Mutagenicity</u>						
Conclusion/Summary	: There are	e no data available on the	mixture itsel	f.		
Carcinogenicity						
Conclusion/Summary	: There are	e no data available on the	mixture itsel	f.		
Reproductive toxicity						
Conclusion/Summary	: There are	e no data available on the	mixture itsel	f.		
Teratogenicity						
Conclusion/Summary	: There are	e no data available on the	mixture itsel	f.		

Specific target organ toxicity (single exposure)

Product/ingredient name	Category	Route of exposure	Target organs
	Category 3 Category 3	-	Narcotic effects Respiratory tract irritation

Specific target organ toxicity (repeated exposure)

Product/ingredient name	Category	Route of exposure	Target organs
Quartz (SiO2)	Category 1	inhalation	-
ethylbenzene	Category 2	-	hearing organs

Aspiration hazard

Product/ingredient name	Result
	ASPIRATION HAZARD - Category 1 ASPIRATION HAZARD - Category 1

Information on likely routes of exposure	: Not available.
Potential acute health ef	fects
Inhalation	: No known significant effects or critical hazards.
Ingestion	: No known significant effects or critical hazards.
Skin contact	: Causes skin irritation. Defatting to the skin.
Eye contact	: Causes serious eye irritation.
Symptoms related to the	physical, chemical and toxicological characteristics
Inhalation	: No specific data.
Ingestion	: No specific data.

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SECTION 11: Toxicological information

	3.04
Skin contact	Adverse symptoms may include the following: irritation redness dryness cracking
Eye contact	Adverse symptoms may include the following: pain or irritation watering redness
Delayed and immediate effe	s as well as chronic effects from short and long-term exposure
Short term exposure	
Potential immediate effects	Not available.
Potential delayed effects	Not available.
Long term exposure	
Potential immediate effects	Not available.
Potential delayed effects	Not available.
Potential chronic health effe	<u>ts</u>
Not available.	
Conclusion/Summary	Not available.
General	Causes damage to organs through prolonged or repeated exposure. Prolonged or repeated contact can defat the skin and lead to irritation, cracking and/or dermatitis.
Carcinogenicity	No known significant effects or critical hazards.
Mutagenicity	No known significant effects or critical hazards.
Reproductive toxicity	No known significant effects or critical hazards.
Other information	Not available.

Prolonged or repeated contact may dry skin and cause irritation. Sanding and grinding dusts may be harmful if inhaled. Repeated exposure to high vapor concentrations may cause irritation of the respiratory system and permanent brain and nervous system damage. Inhalation of vapour/aerosol concentrations above the recommended exposure limits causes headaches, drowsiness and nausea and may lead to unconsciousness or death. Avoid contact with skin and clothing.

11.2 Information on other hazards

11.2.1 Endocrine disrupting propertiesNot available.11.2.2 Other information

Not available.

SECTION 12: Ecological information

12.1 Toxicity

Product/ingredient name	Result	Species	Exposure
sopropyl alcohol	Acute EC50 10100 mg/l	Daphnia - Daphnia	48 hours
	Fresh water	magna	
2,4,6-tris(dimethylaminomethyl)phenol	Acute LC50 175 mg/l	Fish	96 hours
zinc oxide	Acute EC50 0.17 mg/l	Algae	72 hours
	Acute EC50 0.481 mg/l	Daphnia - Daphnia	48 hours
	Fresh water	magna - Neonate	
	Chronic NOEC 0.017 mg/l	Algae	72 hours
	Fresh water		
ethylbenzene	Acute EC50 1.8 mg/l Fresh	Daphnia	48 hours
	water		
	English (GB)	Ivory Coast	11/15

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S	SECTION 12: Ecological information			
	N,N'-ethane-1,2-diylbis(12-hydroxyoctadecan- 1-amide)	Chronic NOEC 1 mg/l Fresh water Acute EC50 29 to 43 mg/l	Daphnia - Ceriodaphnia dubia Algae - Pseudokirchneriella subcapitata	- 72 hours
		Acute EC50 94 mg/l	Daphnia - Daphnia magna	48 hours

Conclusion/Summary

: There are no data available on the mixture itself.

12.2 Persistence and degradability

ethylbenzene-79 % - Readily - 10 daysN,N'-ethane-1,2-diylbis-63 % - 28 days(12-hydroxyoctadecan- 1-amide)-63 % - 28 days-	Product/ingredient name	Test	Result	Dose	Inoculum
	N,Ń'-ethane-1,2-diylbis (12-hydroxyoctadecan-		5 5	-	-

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

Product/ingredient name	Aquatic half-life	Photolysis	Biodegradability
₩ylene ethylbenzene N,N'-ethane-1,2-diylbis(12-hydroxyoctadecan- 1-amide)	- -	- -	Readily Readily Readily

12.3 Bioaccumulative potential

Product/ingredient name	LogPow	BCF	Potential	Potential	
propan-2-ol	0.05	-	Low		
xylene	3.12	7.4 to 18.5	Low		
2,4,6-tris(dimethylaminomethyl)phenol	0.219	-	Low		
ethylbenzene	3.6	79.43	Low		
ethylenediamine	-2.04	-	Low		
N,Ñ'-ethane-1,2-diylbis(12-hydroxyoctadecan- 1-amide)	>6	-	High		

12.4 Mobility in soil	
Soil/water partition coefficient (Koc)	: 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 Endocrine disrupting properties

Not available.

12.7 Other adverse effects

No known significant effects or critical hazards.

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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	(E	WC)

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	taken when Empty conta residues ma Do not cut, v	al and its container must be disposed of in a safe way. Care should be handling emptied containers that have not been cleaned or rinsed out. ainers or liners may retain some product residues. Vapour from product ay create a highly flammable or explosive atmosphere inside the container. weld or grind used containers unless they have been cleaned thoroughly wooid dispersal of spilt material and runoff and contact with soil, waterways, sewers.	

SECTION 14: Transport information

	ADR/RID	IMDG	IATA
14.1 UN number or ID number	UN1263	UN1263	UN1263
14.2 UN proper shipping name	PAINT	PAINT	PAINT
14.3 Transport hazard class(es)	3	3	3
14.4 Packing group	11	11	Ш
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.

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SECTION 14: Transport information

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 : Not applicable. according to IMO instruments

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

Annex XIV

None of the components are listed.

Substances of very high concern

Intrinsic property	Ingredient name	Status	Reference number	Date of revision
Substance of equivalent concern for human health	ethylenediamine		D(2021) 4569-DC	4/12/2023

: Not applicable. **Annex XVII - Restrictions**

on the manufacture, placing on the market and use of certain dangerous substances,

mixtures and articles

Other national and international regulations.

Explosive precursors : Not applicable. Ozone depleting substances (1005/2009/EU)

Not listed.

15.2 Chemical safety : No Chemical Safety Assessment has been carried out.

assessment

SECTION 16: Other information

Indicates information that has changed from previously issued version.

	H317	May cause an allergic skin reaction.		
	H315	Causes skin irritation.		
	H314	Causes severe skin burns and eye da	image.	
	H312	Harmful in contact with skin.		
	H304	May be fatal if swallowed and enters a	airways.	
	H302	Harmful if swallowed.		
statements	H226	Flammable liquid and vapour.		
Full text of abbreviated H	: H225	Highly flammable liquid and vapour.		
	RRN = I	REACH Registration Number		
		Predicted No Effect Concentration		
		tement = CLP-specific Hazard statement	nt	
		Derived No Effect Level		
	1272/20			
acronyms		Classification, Labelling and Packaging F	Regulation [Regulation (EC)	No.
Abbreviations and		cute Toxicity Estimate		

English (GB)

H335May cause respiratory irritationH336May cause drowsiness or dizziness.H3372Causes damage to organs through prolonged or repeated exposure.H373May cause damage to organs through prolonged or repeated exposure.H373May cause damage to organs through prolonged or repeated exposure.H400Very toxic to aquatic life with long lasting effects.H410Very toxic to aquatic life with long lasting effects.H412Harmful to aquatic life with long lasting effects.H412Harmful to aquatic life with long lasting effects.H413Harmful to aquatic life with long lasting effects.GLP/GHS]Forther Term (CHRONIC) AQUATIC HAZARD - CategoAquatic Chronic 1LONG-TERM (CHRONIC) AQUATIC HAZARD - CategoAquatic Chronic 3LONG-TERM (CHRONIC) AQUATIC HAZARD - CategoAquatic Chronic 3LONG-TERM (CHRONIC) AQUATIC HAZARD - CategoAquatic Chronic 1LONG-TERM (CHRONIC) AQUATIC HAZARD - CategoAquatic Chronic 3LONG-TERM (CHRONIC) AQUATIC HAZARD - CategoFiam. Liq. 2FLAMMABLE LIQUIDS - Category 1Eye Dam. 1SERIOUS EYE DAMAGE/EYE IRRITATION - Category 1Eye Dam. 1SERIOUS EYE DAMAGE/EYE IRRITATION - Category 1Skin Corr. 10SKIN CORROSION/IRRITATION - Category 1BSkin Corr. 11SKIN CORROSION/IRRITATION - Category 1Skin Sens. 1SKIN SENSITISATION - Category 1Skin Sens. 1 </th <th>Code : 00332383 SIGMAZINC 105 HARDENER</th> <th>Date of issue/Date of revision : 14 May 2024</th>	Code : 00332383 SIGMAZINC 105 HARDENER	Date of issue/Date of revision : 14 May 2024
H319 Causes serious e/e irritation. H332 Hamful if inhaled. H334 May cause respiratory irritation. H335 May cause damage to organs through prolonged or repeated exposure. H372 Causes damage to organs through prolonged or repeated exposure. H373 May cause damage to organs through prolonged or repeated exposure. H374 Causes damage to organs through prolonged or repeated exposure. H375 Causes damage to organs through prolonged or repeated exposure. H374 May cause damage to organs through prolonged or repeated exposure. H375 Causes damage to organs through prolonged or repeated exposure. H410 Very toxic to aquatic life with long lasting effects. H412 Harmful to aquatic life with long lasting effects. H412 Harmful to aquatic life with long lasting effects. Aquatic Chronic 1 LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 4 Aquatic Chronic 3 LONG-TERM (CHRONIC) AQUATIC HAZARD - Categor) Aguatic Chronic 3 LONG-TERM (CHRONIC) AQUATIC HAZARD - Categor) Eye Dam. 1 SERIOUS EYE DAMAGE/EYE IRRITATION - Categor) Eye Dam. 1 SERIOUS EYE DAMAGE/EYE IRRITATION - Categor) Fiam. Liq. 2 FLAMMABLE LIQUIDS - Category 1	SECTION 16: Other i	formation
Date of issue/ Date of revision: 14 May 2024Date of previous issue: 3 April 2024Prepared by: EHS	[CLP/GHS]	 H319 Causes serious eye irritation. H332 Harmful if inhaled. H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled. H335 May cause drowsiness or dizziness. H372 Causes damage to organs through prolonged or repeated exposure. H373 May cause damage to organs through prolonged or repeated exposure. H374 May cause damage to organs through prolonged or repeated exposure. H400 Very toxic to aquatic life. H410 Very toxic to aquatic life with long lasting effects. H412 Harmful to aquatic life with long lasting effects. H412 Harmful to aquatic life with long lasting effects. Keute Tox. 4 ACUTE TOXICITY - Category 4 Aquatic Acute 1 SHORT-TERM (ACUTE) AQUATIC HAZARD - Category 1 Aquatic Chronic 1 LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 1 Aquatic Chronic 3 LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 1 AspiRATION HAZARD - Category 1 Eye Dam. 1 SERIOUS EYE DAMAGE/EYE IRRITATION - Category 1 Eye Irrit. 2 SERIOUS EYE DAMAGE/EYE IRRITATION - Category 2 Flam. Liq. 3 FLAMMABLE LIQUIDS - Category 3 Resp. Sens. 1 RESPIRATORY SENSITISATION - Category 1 Skin Corr. 1B SKIN CORROSION/IRRITATION - Category 1 Skin Sens. 1 SKIN SENSITISATION - Category 1 SKIN SENSITIS
Date of previous issue: 3 April 2024Prepared by: EHS	Date of issue/ Date of	: 14 May 2024
		: 3 April 2024
	Prepared by Version	: EHS : 7.01

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