SAFETY DATA SHEET

Date of issue/Date of revision

: 8 December 2023 Version





: 1.01

SECTION 1: Identification of the substance/mixture and of the company/ undertaking		
1.1 Product identifier		
Product name	: SIGMAZINC 102 HS / 109 HS HARDENER	
Product code	: 00453636	
Other means of identifica	lion	
Not available.		
1.2 Relevant identified uses	s of the substance or mixture and uses advised against	
Product use	: Consumer applications, Professional applications, Used by spraying.	
Use of the substance/ mixture	: Hardener.	
1.3 Details of the supplier of	of the safety data sheet	
Sigma Coatings PTY 9 Arnold Street, Alrode, Alberton, Gauteng South Africa		
Tel: 0027 11 389 4800		
e-mail address of person responsible for this SDS	: PS.ACEMEA@ppg.com	
1.4 Emergency telephone number	: +27 51 444 2134	

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 Corr. 1C, H314 Eye Dam. 1, H318 Skin Sens. 1, H317 STOT SE 3, H335 Aquatic Chronic 2, H411

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 : 00453636		Date of issue/Date of revision	: 8 December 2023
SIGMAZINC 102 HS / 109 HS	HARDENER		
SECTION 2: Hazards	identification		
Hazard pictograms			
Signal word	: Danger		
Hazard statements	May cause an aller May cause respirat	n burns and eye damage. gic skin reaction.	
Precautionary statements			
General	: Keep out of reach on label at hand.	of children. If medical advice is needed, ha	ve product container or
Prevention	heat, hot surfaces,	oves, protective clothing and eye or face pro sparks, open flames and other ignition sour a well-ventilated area. Avoid release to the	rces. No smoking. Use
Response	SWALLOWED: Im induce vomiting. IF Rinse skin with wat contaminated cloth irritation or rash occ with water for sever	INHALED: Immediately call a POISON CE mediately call a POISON CENTER or doctor ON SKIN (or hair): Take off immediately a er. Immediately call a POISON CENTER of ing before reuse. IF ON SKIN: Wash with p curs: Get medical advice or attention. IF IN ral minutes. Remove contact lenses, if pres mmediately call a POISON CENTER or doc	or. Rinse mouth. Do NOT Il contaminated clothing. or doctor. Wash olenty of water. If skin I EYES: Rinse cautiously ent and easy to do.
Storage	: Store locked up. S	tore in a well-ventilated place. Keep contair	er tightly closed.
Disposal	international regula ₱102, P101, P280, P331, P303 + P361	s and container in accordance with all local, tions. P210, P271, P273, P261, P391, P304 + P3 + P353, P310, P363, P302 + P352, P333 P403 + P233, P501	310, P301 + P310, P330,
Hazardous ingredients	and triethylenetetra Amides, from C18- reaction products w xylene 2-methylpropan-1-c	unsatd. fatty acid dimers, tall-oil fatty acids /ith bisphenol A-epichlorohydrin polymer bl minomethyl)phenol	
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	<u>ients</u>		
Containers to be fitted with child-resistant fastenings	: Yes, applicable.		
Tactile warning of danger	: Yes, applicable.		

Code	: 00453636	Date of issue/Date of revision	: 8 December 2023	
SIGMAZINC 102 HS / 109 HS HARDENER				
SECTIO	ON 2: Hazards identification	l		
2.3 Other	hazards			
	meets the criteria : This mixture doe or vPvB	es not contain any substances that are assess	ed to be a PBT or a vPvB	

not result in classification

Other hazards which do : Causes digestive tract burns. 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	Specific Conc. Limits, M-factors and ATEs	Туре
Fatty acids, C18-unsatd., dimers, oligomeric reaction products with tall-oil fatty acids and triethylenetetramine	REACH #: 01-2119972320-44 EC: 500-191-5 CAS: 68082-29-1	≥25 - ≤50	Skin Irrit. 2, H315 Eye Dam. 1, H318 Skin Sens. 1A, H317 Aquatic Chronic 2, H411	-	[1]
Amides, from C18-unsatd. fatty acid dimers, tall-oil fatty acids and triethylenetetramine, reaction products with bisphenol A- epichlorohydrin polymer	CAS: 68953-09-3	≥10 - ≤25	Skin Irrit. 2, H315 Eye Irrit. 2, H319 Skin Sens. 1, H317	-	[1]
xylene	EC: 215-535-7 CAS: 1330-20-7	≥10 - ≤25	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-methylpropan-1-ol	REACH #: 01-2119484609-23 EC: 201-148-0 CAS: 78-83-1 Index: 603-108-00-1	≥10 - <20	Flam. Liq. 3, H226 Skin Irrit. 2, H315 Eye Dam. 1, H318 STOT SE 3, H335 STOT SE 3, H336	-	[1] [2]
benzyl alcohol	REACH #: 01-2119492630-38 EC: 202-859-9 CAS: 100-51-6 Index: 603-057-00-5	≥10 - ≤25	Acute Tox. 4, H302 Acute Tox. 4, H332 Eye Irrit. 2, H319	ATE [Oral] = 1230 mg/ kg ATE [Inhalation (dusts and mists)] = 1.5 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	≥5.0 - ≤10	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]
ethylbenzene	REACH #: 01-2119489370-35 EC: 202-849-4	≥1.0 - ≤5.0	Flam. Liq. 2, H225 Acute Tox. 4, H332 STOT RE 2, H373	ATE [Inhalation (vapours)] = 17.8 mg/l	[1] [2]
		English	(GB) South	Africa	3/16

Code : 00453636 Date of issue/Date of revision : 8

: 8 December 2023

SIGMAZINC 102 HS / 109 HS HARDENER

SECTION 3: Composition/information on ingredients

•			0		
	CAS: 100-41-4 Index: 601-023-00-4		(hearing organs) Asp. Tox. 1, H304 Aquatic Chronic 3, H412		
3,6-diazaoctanethylenediamin	EC: 203-950-6 CAS: 112-24-3 Index: 612-059-00-5	≥1.0 - <5.0	Acute Tox. 4, H302 Acute Tox. 4, H312 Skin Corr. 1B, H314 Eye Dam. 1, H318 Skin Sens. 1, H317 Aquatic Chronic 3, H412 See Section 16 for the full text of the H statements declared above.	ATE [Oral] = 1716 mg/ kg ATE [Dermal] = 1465 mg/kg	[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.

<u>Type</u>

Substance classified with a health or environmental hazard

[2] Substance with a workplace exposure limit

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	:	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. In case of accidental skin contact, avoid direct exposure to the sun or other sources of UV light as severe irritation including burns may result. These reactions can be delayed – get medical attention if pain, irritation, rash or blistering occurs after contact.
Ingestion	1	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.

4.2 Most important symptoms and effects, both acute and delayed

Potential acute health	<u>n effects</u>
Eye contact	: Causes serious eye damage.
Inhalation	: May cause respiratory irritation.
Skin contact	: Causes severe burns. Defatting to the skin. May cause an allergic skin reaction.
Ingestion	: Corrosive to the digestive tract. Causes burns.
Over-exposure signs	/symptoms

Code<th::</th>:00453636Date of issue/Date of revision:8 December 2023SIGMAZINC 102 HS / 109 HS HARDENER

SECTION 4: First aid measures

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

4.3 Indication of any immediate medical attention and special treatment needed

Specific treatments	: No specific treatment.	
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.	

SECTION 5: Firefighting 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 hazards arising from 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 toxic 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 halogenated compounds
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.

Code : 00453636

SIGMAZINC 102 HS / 109 HS HARDENER

Date of issue/Date of revision : 8 De

: 8 December 2023

SECTION 6: Accidental release measures

6.1 Personal precautions, pro	tective 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. Collect spillage.		
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		

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.

sectionsSee Section 8 for information on appropriate personal protective equipment.
See Section 13 for additional waste treatment information.

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). 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 breathe vapour or mist. Do not ingest. 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.
	Materials such as cleaning rags, paper wipes and protective clothing, which are contaminated with the product may spontaneously self-ignite some hours later. To avoid the risks of fires, all contaminated materials should be stored in purpose-built containers or in metal containers with tight-fitting, self-closing lids. Contaminated materials should be removed from the workplace at the end of each working day and be stored outside.

Date of issue/Date of revision Code : 00453636 : 8 December 2023

SIGMAZINC 102 HS / 109 HS HARDENER

SECTION 7: Handling and storage

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 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	Exposure limit values
x ylene	DOL OEL (South Africa, 3/2021). [xylene, o-, m-, p- or mixed isomers] Absorbed through skin.
	TWA: 200 ppm 8 hours. STEL: 300 ppm 15 minutes.
2-methylpropan-1-ol	DOL OEL (South Africa, 3/2021). TWA: 100 ppm 8 hours.
ethylbenzene	DOL OEL (South Africa, 3/2021). Absorbed through skin. TWA: 40 ppm 8 hours.

Biological exposure indices

Product/ingredient name		Exposure indices	
x ylene	end of shift.	e, methylhippuric acid [in urine].	Sampling time:
ethylbenzene	DOL BEI (South Afric BEI: 0.15 g/g creatini acid [in urine]. Sampli	ine, sum of mandelic acid and ph	ıenylglyoxylic
procedures Standard EN 6 by inhalation to strategy) Euro application and biological agen requirements	589 (Workplace atmosphe o chemical agents for com opean Standard EN 14042 d use of procedures for the nts) European Standard E for the performance of pro	g standards, such as the followin res - Guidance for the assessme parison with limit values and me 2 (Workplace atmospheres - Guid e assessment of exposure to che EN 482 (Workplace atmospheres becedures for the measurement of e documents for methods for the	ent of exposure easurement de for the emical and s - General f chemical
	English (GB)	South Africa	7/16

Conforms to Regulation (EC 2020/878	No. 1907/2006 (REACH), Annex II, as amended by Commission Regulation (EU)
Code : 00453636	Date of issue/Date of revision : 8 December 2023
SIGMAZINC 102 HS / 109 HS	HARDENER
	of hazardous substances will also be required.
8.2 Exposure controls	
Appropriate engineering controls	: Use only with adequate ventilation. Use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits. The engineering controls also need to keep gas, vapour or dust concentrations below any lower explosive limits. Use explosion-proof ventilation equipment.
Individual protection measured	<u>ires</u>
Hygiene measures	: Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.
Eye/face protection Skin protection	: Chemical splash goggles and face shield.
Hand protection	: Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated. When prolonged or frequently repeated contact may occur, a glove with a protection class of 6 (breakthrough time greater than 480 minutes according to EN 374) is recommended. When only brief contact is expected, a glove with a protection class of 2 or higher (breakthrough time greater than 30 minutes according to EN 374) is recommended. The user must check that the final choice of type of glove selected for handling this product is the most appropriate and takes into account the particular conditions of use, as included in the user's risk assessment.
Gloves	: nitrile neoprene
Body protection Other skin protection	: Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product. When there is a risk of ignition from static electricity, wear antistatic protective clothing. For the greatest protection from static discharges, clothing should include anti-static overalls, boots and gloves. Refer to European Standard EN 1149 for further information on material and design requirements and test methods. 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	: Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator. If workers are exposed to concentrations above the exposure limit, they must use appropriate, certified respirators. Use a properly fitted, air-purifying or air-fed respirator complying with an approved standard if a risk assessment indicates this is necessary. Wear a respirator conforming to EN140. Filter type: organic vapour (Type A) and particulate filter P3
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.

Date of issue/Date of revision

: 8 December 2023

- Code : 00453636
- SIGMAZINC 102 HS / 109 HS HARDENER

SECTION 9: Physical and chemical properties

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

Appearance							
Physical state	: Liquid.						
Colour	: Clear.						
Odour	: Aromatic. [Slight]						
Odour threshold	: Not available.						
Melting point/freezing point	: May start to solidify data for the following -64.11°C (-83.4°F)		0		`	,	
Initial boiling point and boiling range	: >37.78°C						
Flammability	: Not available.						
Upper/lower flammability or explosive limits	: Greatest known rang	ge: Lower:	1.3% l	Jpper: 13%	(benzyl al	cohol)	
Flash point	: Closed cup: 30°C						
Auto-ignition temperature	: Ingredient name		°C	°F		Method	
	3,6-diazaoctanethyleneo	diamin	337.78	640			
Decomposition temperature	: Stable under recom	mended st	orage a	nd handling	g condition	s (see Sec	tion 7).
рН	: Not applicable. insol						
Viscosity	: Kinematic (room ter Kinematic (40°C): >		: >400 r	nm²/s			
Viscosity	: 60 - 100 s (ISO 6mr						
-		,					
JUIUDIIILY(IES)	 • 						
Media	Result						
	. Result Not soluble						
Media Media Media Partition coefficient: n-octanol/	Not soluble						
Media Fold water Partition coefficient: n-octanol/ water	Not soluble Not applicable.	Vароц	ur Press	Sure at 20°	C Va	pour press	sure at 50°C
Media Fold water Partition coefficient: n-octanol/ water	Not soluble : Not applicable.	Vapou mm Hg	i	sure at 20° Method	C Va mm Hg	pour press	sure at 50°C
Media Fold water Partition coefficient: n-octanol/ water	Not soluble Not applicable.		kPa	1	mm		1
Media Fold water Partition coefficient: n-octanol/ water Vapour pressure	Not soluble Not applicable. Ingredient name		kPa <1.6	Method DIN EN 13016-2	mm Hg	kPa	
Media Fold water Partition coefficient: n-octanol/ water Vapour pressure Evaporation rate	 Not soluble Not applicable. Ingredient name Impredient name Impredient name Impredient name 		kPa <1.6	Method DIN EN 13016-2	mm Hg	kPa	Method
Media Fold water Partition coefficient: n-octanol/ water Vapour pressure Evaporation rate Relative density	 Not soluble Not applicable. Ingredient name Ingredi		kPa <1.6 hylbenze	Method DIN EN 13016-2 ene) Weigh 3,6-diazaoo	mm Hg nted average	kPa ge: 0.5com nediamin).	Method pared with Weighted
Media Fold water Partition coefficient: n-octanol/ water Vapour pressure Evaporation rate Relative density Vapour density	 Not soluble Not applicable. Ingredient name Ingredi	<pre></pre>	kPa <1.6 hylbenze ir = 1) (;	Method DIN EN 13016-2 ene) Weigh 3,6-diazaoo	mm Hg nted average	kPa ge: 0.5com nediamin).	Method pared with Weighted
Media Media Media Media Media Media Media Name Partition coefficient: n-octanol/ water Vapour pressure Evaporation rate Relative density Vapour density Explosive properties	 Not soluble Not applicable. Ingredient name Ingredient name<	<pre>mm Hg <12.00102 e: 0.84 (eth e: 5.04 (Ai = 1) not explos air is possi</pre>	kPa <1.6 hylbenze ir = 1) (; sive, but ble.	Method DIN EN 13016-2 ene) Weigh 3,6-diazaoo the formati	mm Hg nted average	kPa ge: 0.5com nediamin).	Method pared with Weighted
Media Cold water Partition coefficient: n-octanol/ water Vapour pressure Evaporation rate Relative density Vapour density Explosive properties Oxidising properties	 Not soluble Not applicable. Ingredient name Ingredient name<	<pre>mm Hg <12.00102 e: 0.84 (eth e: 5.04 (Ai = 1) not explos air is possi</pre>	kPa <1.6 hylbenze ir = 1) (; sive, but ble.	Method DIN EN 13016-2 ene) Weigh 3,6-diazaoo the formati	mm Hg nted average	kPa ge: 0.5com nediamin).	Method pared with Weighted
Media Fold water Partition coefficient: n-octanol/ water Vapour pressure Evaporation rate Relative density Vapour density Explosive properties Oxidising properties Particle characteristics	 Not soluble Not applicable. Ingredient name Ingredient name<	<pre>mm Hg <12.00102 e: 0.84 (eth e: 5.04 (Ai = 1) not explos air is possi</pre>	kPa <1.6 hylbenze ir = 1) (; sive, but ble.	Method DIN EN 13016-2 ene) Weigh 3,6-diazaoo the formati	mm Hg nted average	kPa ge: 0.5com nediamin).	Method pared with Weighted
	 Not soluble Not applicable. Ingredient name Ingredient name<	<pre>mm Hg <12.00102 e: 0.84 (eth e: 5.04 (Ai = 1) not explos air is possi</pre>	kPa <1.6 hylbenze ir = 1) (; sive, but ble.	Method DIN EN 13016-2 ene) Weigh 3,6-diazaoo the formati	mm Hg nted average	kPa ge: 0.5com nediamin).	Method pared with Weighted

Code: 00453636Date of issue/Date of revision: 8 December 2023SIGMAZINC 102 HS / 109 HS HARDENER

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	: This mixture contains materials which are unstable under the following conditions: exposure to heat, strong UV sources. These could cause the product to polymerise exothermically. Unintentional contact with them should be avoided.
	Refer to protective measures listed in sections 7 and 8.
10.5 Incompatible materials	: Keep away from: free radical initiators, peroxides, strong alkalis, reactive metals.
10.6 Hazardous decomposition products	: Depending on conditions, decomposition products may include the following materials: carbon oxides nitrogen oxides halogenated compounds

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
✓atty acids, C18-unsatd., dimers, oligomeric reaction products with tall-oil	LD50 Dermal	Rat	>2000 mg/kg	-
fatty acids and triethylenetetramine				
	LD50 Oral	Rat	>2000 mg/kg	-
xylene	LD50 Dermal	Rabbit	1.7 g/kg	-
	LD50 Oral	Rat	4.3 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	-
benzyl alcohol	LC50 Inhalation Dusts and	Rat	>4178 mg/m ³	4 hours
-	mists		-	
	LD50 Dermal	Rabbit	2000 mg/kg	-
	LD50 Oral	Rat	1.23 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	-
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	-
3,6-diazaoctanethylenediamin	LD50 Dermal	Rabbit	1465 mg/kg	-
-	LD50 Oral	Rat	1716 mg/kg	-

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

Irritation/Corrosion

Product/ingredient name	Result	Species	Score	Exposure	Observation
✓atty acids, C18-unsatd., dimers, oligomeric reaction products with tall-oil fatty acids and triethylenetetramine	Eyes - Severe irritant	Rabbit	-	-	-
	Skin - Irritant	Human	-	-	-
xylene	Skin - Moderate irritant	Rabbit	-	24 hours 500 mg	-
2,4,6-tris(dimethylaminomethyl)phenol	Skin - Visible necrosis	Rabbit	-	4 hours	7 days

Conclusion/Summary

English (GB)
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- Code : 00453636
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SIGMAZING 102 HS / 109 HS HARDENER

SECTION 11: Toxicological information

- : There are no data available on the mixture itself.
- Skin Eyes
- : There are no data available on the mixture itself.
- Respiratory

: There are no data available on the mixture itself.

Sensitisation

Product/ingredient name	Route of exposure	Species	Result
Fatty acids, C18-unsatd., dimers, oligomeric reaction products with tall-oil fatty acids and triethylenetetramine	skin	Mouse	Sensitising
3,6-diazaoctanethylenediamin	skin	Guinea pig	Sensitising

Conclusion/Summary	
Skin	: There are no data available on the mixture itself.
Respiratory	: There are no data available on the mixture itself.
Mutagenicity	
Conclusion/Summary	: There are no data available on the mixture itself.
Carcinogenicity	
Conclusion/Summary	: There are no data available on the mixture itself.
Reproductive toxicity	
Conclusion/Summary	: There are no data available on the mixture itself.
Teratogenicity	
Conclusion/Summary	: There are no data available on the mixture itself.
Specific target organ toxi	city (cingle expective)

Specific target organ toxicity (single exposure)

Product/ingredient name	Category	Route of exposure	Target organs
xylene 2-methylpropan-1-ol	Category 3 Category 3 Category 3	-	Respiratory tract irritation Respiratory tract irritation Narcotic effects

Specific target organ toxicity (repeated exposure)

Product/ingredient name	Category	Route of exposure	Target organs
ethylbenzene	Category 2	-	hearing organs

Aspiration hazard

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

Information on likely : Not available.

routes of exposure Potential acute health effects

i otentiai acute nealth enects	
Inhalation :	May cause respiratory irritation.
Ingestion :	Corrosive to the digestive tract. Causes burns.
Skin contact :	Causes severe burns. Defatting to the skin. May cause an allergic skin reaction.
Eye contact :	Causes serious eye damage.
Symptoms related to the phys	ical, chemical and toxicological characteristics
Inhalation :	Adverse symptoms may include the following: respiratory tract irritation coughing

Conforms to Regulation (EC) No. 1907/2006 (I 2020/878	REACH), Annex II, as amended by Commissio	n Regulation (EU)
Code : 00453636	Date of issue/Date of revision	: 8 December 2023

SIGMAZINC 102 HS / 109 HS HARDENER

SECTION 11: Toxicological information

Ingestion	: Adverse symptoms may include the following: stomach pains
Skin contact	: Adverse symptoms may include the following: pain or irritation redness dryness cracking blistering may occur
Eye contact	: Adverse symptoms may include the following: pain watering redness

	Tearloss
Delayed and immediate effe	cts as well as chronic effects from short and long-term exposure
<u>Short term exposure</u>	
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>cts</u>
Not available.	
Conclusion/Summary	: Not available.
General	: Prolonged or repeated contact can defat the skin and lead to irritation, cracking and/or dermatitis. Once sensitized, a severe allergic reaction may occur when subsequently exposed to very low levels.
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.

Causes digestive tract burns. Prolonged or repeated contact may dry skin and cause irritation. 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 properties

Not available.

11.2.2 Other information

Not available.

SECTION 12: Ecological information

12.1 Toxicity

Code : 00453636 Date of issue/Date of revision : 8 December 2023

SIGMAZINC 102 HS / 109 HS HARDENER

SECTION 12: Ecological information

Product/ingredient name	Result	Species	Exposure
Atty acids, C18-unsatd., dimers, oligomeric reaction products with tall-oil fatty acids and triethylenetetramine	EC10 1.78 mg/l	Algae	72 hours
2-methylpropan-1-ol	Acute EC50 1100 mg/l	Daphnia	48 hours
2,4,6-tris(dimethylaminomethyl)phenol	Acute LC50 175 mg/l	Fish	96 hours
ethylbenzene	Acute EC50 1.8 mg/l Fresh water	Daphnia	48 hours
	Chronic NOEC 1 mg/l Fresh	Daphnia -	-
	water	Ceriodaphnia dubia	

12.2 Persistence and degradability

Product/ingredient name	Test	Result	Dose	Inoculum
e thylbenzene	-	79 % - Readily - 10 days	-	-
Conclusion/Summary : There are no data available on the mixture itself.				

Product/ingredient name	Aquatic half-life	Photolysis	Biodegradability
Fatty acids, C18-unsatd., dimers, oligomeric reaction products with tall-oil fatty acids and triethylenetetramine	-	-	Not readily
xylene	-	-	Readily
benzyl alcohol	-	-	Readily
ethylbenzene	-	-	Readily

12.3 Bioaccumulative potential

Product/ingredient name	LogPow	BCF	Potential
xylene	3.12	7.4 to 18.5	Low
2-methylpropan-1-ol	1	-	Low
benzyl alcohol	0.87	-	Low
2,4,6-tris(dimethylaminomethyl)phenol	0.219	-	Low
ethylbenzene	3.6	79.43	Low
3,6-diazaoctanethylenediamin	-1.66 to -1.4	-	Low

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.

Code : 00453636

SIGMAZINC 102 HS / 109 HS HARDENER

Date of issue/Date of revision : 8 De

: 8 December 2023

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 catalogu	ie (E	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.			
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.			

SECTION 14: Transport information

	ADR/RID	IMDG	ΙΑΤΑ
14.1 UN number or ID number	UN3469	UN3469	UN3469
14.2 UN proper shipping name	PAINT RELATED MATERIAL, FLAMMABLE, CORROSIVE	PAINT RELATED MATERIAL, FLAMMABLE, CORROSIVE	PAINT RELATED MATERIAL, FLAMMABLE, CORROSIVE
14.3 Transport hazard class(es)	3 (8)	3 (8)	3 (8)
14.4 Packing group	Ш	111	III
14.5 Environmental hazards	Yes.	Yes.	Yes. The environmentally hazardous substance mark is not required.
Marine pollutant substances	Not applicable.	(Polyamide)	Not applicable.

Additional information

ADR/RID	The environmentally hazardous substance mark is not required when transported in sizes of ≤5 L or ≤5 kg.
Tunnel code	: (D/E)
IMDG	: The marine pollutant mark is not required when transported in sizes of \leq 5 L or \leq 5 kg.
ΙΑΤΑ	 The environmentally hazardous substance mark may appear if required by other transportation regulations.

Code

: 00453636 SIGMAZINC 102 HS / 109 HS HARDENER Date of issue/Date of revision

: 8 December 2023

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 None of the components are listed. Annex XVII - Restrictions : Not applicable. on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles Other national and international regulations. : Not applicable. **Explosive precursors** 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.

		English (GB)	South Africa	15/16
	H336	May cause drowsiness or dizziness.		
	H335	May cause respiratory irritation.		
	H332	Harmful if inhaled.		
	H319	Causes serious eye irritation.		
	H318	Causes serious eye damage.		
	H317	May cause an allergic skin reaction.		
	H315	Causes skin irritation.		
	H314	Causes severe skin burns and eye c	lamage.	
	H312	Harmful in contact with skin.	-	
	H304	May be fatal if swallowed and enters	airways.	
	H302	Harmful if swallowed.		
statements	H226	Flammable liquid and vapour.		
Full text of abbreviated H	: H225	Highly flammable liquid and vapour.		
	EUH sta PNEC =	Derived No Effect Level atement = CLP-specific Hazard statem Predicted No Effect Concentration REACH Registration Number	ent	
	1272/20	08]	5 L 5 (/
acronyms		Classification, Labelling and Packaging	Regulation [Regulation (E	C) No.
Abbreviations and	• ATE = 4	Acute Toxicity Estimate		

Code : 00453636 SIGMAZINC 102 HS / 109 HS	HARDENER	Date of issue/Date of revision: 8 December 2023
SECTION 16: Other	information	
	H411 Toxic to aqua	mage to organs through prolonged or repeated exposure. tic life with long lasting effects. uatic life with long lasting effects.
Full text of classifications [CLP/GHS]	: Acute Tox. 4 Aquatic Chronic 2 Aquatic Chronic 3 Asp. Tox. 1 Eye Dam. 1 Eye Irrit. 2 Flam. Liq. 2 Flam. Liq. 3 Skin Corr. 1B Skin Corr. 1C Skin Irrit. 2 Skin Sens. 1 Skin Sens. 1 Skin Sens. 1A STOT RE 2	ACUTE TOXICITY - 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 SKIN CORROSION/IRRITATION - Category 1B SKIN CORROSION/IRRITATION - Category 1C SKIN CORROSION/IRRITATION - Category 2 SKIN SENSITISATION - Category 1 SKIN SENSITISATION - Category 1 SKIN SENSITISATION - Category 1 SKIN SENSITISATION - Category 1 SKIN SENSITISATION - Category 1 SPECIFIC TARGET ORGAN TOXICITY - REPEATED EXPOSURE - Category 2 SPECIFIC TARGET ORGAN TOXICITY - SINGLE EXPOSURE - Category 3
<u>History</u>		
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Prepared by	: EHS	
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<u>Disclaimer</u>		

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