SAFETY DATA SHEET

Date of issue/Date of revision

: 17 February 2024 Version



pPG

: 19.05

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	: 00218768
Other means of identificati	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
Varossieau Suriname NV,	
Mastanaweg 4, Paramaribo, SURINAME	
Tel: 00597 484447	
Fax: 00597 483785	
e-mail address of person responsible for this SDS	: Product.Stewardship.EMEA@ppg.com
1.4 Emergency telephone	: 0031 (0)20 4075210

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 Hazard pictograms

number



English (GB)

Code

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SECTION 2: Hazards identification

Signal word	Danger	
Hazard statements	Flammable liquid and vapour. Causes severe skin burns and eye damage. May cause an allergic skin reaction. May cause respiratory irritation. Toxic to aquatic life with long lasting effects.	
Precautionary statements		
Prevention	Wear protective gloves, protective clothing and eye or face protection. Keep away fro heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Avor release to the environment.	
Response	Collect spillage.	
Storage	Store in a well-ventilated place. Keep container tightly closed.	
Disposal	 Spose of contents and container in accordance with all local, regional, national and international regulations. 280, P210, P273, P391, P403 + P233, P501 	
Hazardous ingredients	 Fatty acids, C18-unsatd., dimers, oligomeric reaction products with tall-oil fatty acids and triethylenetetramine Amides, from C18-unsatd. fatty acid dimers, tall-oil fatty acids and triethylenetetramine reaction products with bisphenol A-epichlorohydrin polymer xylene 2-methylpropan-1-ol 2,4,6-tris(dimethylaminomethyl)phenol 3,6-diazaoctanethylenediamin 	e,
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	t <u>s</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 vPv	∕B.
Other hazards which do not result in classification	Causes digestive tract burns. Prolonged or repeated contact may dry skin and cause irritation.	

SECTION 3: Composition/information on ingredients

3.2 Mixtures

: Mixture

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SECTION 3: Composition/information on ingredients

Fitty acids, C18-unsatd, dimers, oligometic reaction products with tail-olifatty acids and trethylenetetramine EEACH #: CAS: 68953-09-3 $\geq 25 - s50$ Skin Imriz 2, H315 Eye Dam. 1, H318 Skin Sens. 1A, H317 Aquatic Chronic 2, H411 - [1] Amides, from C18-unsatd, fatty acid mers, tall-oli treation products with bisphenol A- epichtorolydin polymer CAS: 68953-09-3 CAS: 1330-20-7 $\geq 10 - s25$ Skin Imriz 2, H315 Eye Imriz 2, H319 Skin Sens. 1, H317 - [1] 2-methylpropan-1-ol CE: 215-535.7 CAS: 1330-20-7 $\geq 10 - s25$ Flam. Liq, 3, H226 Acute Tox, 4, H312 Acute Tox, 4, H314 Acute Tox, 4, H314 Acute Tox, 4, H314 A	Product/ingredient name	Identifiers	%	Classification	Specific Conc. Limits, M-factors and ATEs	Туре
fatty acid dimers, tail-oil gaty acids and Eve Inft. 2, H319 Skin Sens. 1, H317 fatty acids and spinenol A. Skin Sens. 1, H317 ATE [Dermal] = 1700 mg/kg acute Tox. 4, H312 Acute Tox. 4, H312 ATE [Inhalation (rapours)] = 11 mg/l [1] [2] sylene EC: 215-535-7 \geq 10 - <25	products with tall-oil fatty	01-2119972320-44 EC: 500-191-5	≥25 - ≤50	Eye Dam. 1, H318 Skin Sens. 1A, H317	-	[1]
$ \begin{array}{c c c c c c c c c c c c c c c c c c c $	bisphenol A-	CAS: 68953-09-3	≥10 - ≤25	Eye Irrit. 2, H319	-	[1]
$\begin{array}{c} 112119484609-23\\ EC: 201-144-0\\ CAS: 78-83-1\\ Index: 603-108-00-1\\ \hline \\ CAS: 78-83-1\\ Index: 603-108-00-1\\ \hline \\ CAS: 100-51-6\\ Index: 603-057-00-5\\ \hline \\ 2,4,6-tris\\ (dimethylaminomethyl)\\ phenol\\ \hline \\ ethylbenzene\\ \hline \\ ethylbenzene\\ \hline \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\$	xylene		≥10 - ≤25	Acute Tox. 4, H312 Acute Tox. 4, H332 Skin Irrit. 2, H315 Eye Irrit. 2, H319 STOT SE 3, H335 Asp. Tox. 1, H304	mg/kg ATE [Inhalation	[1] [2]
$\begin{array}{c} 01-2119492630-38\\ EC: 202-859-9\\ CAS: 100-51-6\\ Index: 603-057-00-5\\ red (dimethylaminomethyl)\\ 01-2119560597-27\\ phenol\\ ethylbenzene\\ \end{array}$ $\begin{array}{c} REACH \#:\\ 01-2119560597-27\\ EC: 202-013-9\\ CAS: 90-72-2\\ Index: 603-069-00-0\\ ethylbenzene\\ \end{array}$ $\begin{array}{c} REACH \#:\\ 01-211949370-35\\ EC: 202-849-4\\ CAS: 100-41-4\\ Index: 601-023-00-4\\ \end{array}$ $\begin{array}{c} > 1.0 - \leq 5.0\\ Flam. Liq. 2, H225\\ Acute Tox. 4, H332\\ Stin Corr. 1C, H314\\ Eye Dam. 1, H318\\ \end{array}$ $\begin{array}{c} ATE [Oral] = 1200 mg/\\ kg\\ ATE [Dermal] = 1280\\ mg/kg\\ \end{array}$ $\begin{array}{c} ATE [Inhalation (dusts and mists)] = 1.5 mg/l\\ ATE [Dermal] = 1280\\ mg/kg\\ \end{array}$ $\begin{array}{c} ATE [Inhalation (vapours)] = 17.8 mg/l\\ (vapours)] = 17.8 mg/l\\ (vapours)] = 17.8 mg/l\\ Stin Corr. 1B, H314\\ Eye Dam. 1, H318\\ Skin Sens. 1, H317\\ Aquatic Chronic 3, H412\\ \end{array}$ $\begin{array}{c} ATE [Oral] = 1716 mg/\\ Rg\\ ATE [Dermal] = 1465\\ mg/kg\\ \end{array}$	2-methylpropan-1-ol	01-2119484609-23 EC: 201-148-0 CAS: 78-83-1	≥10 - <20	Skin Irrit. 2, H315 Eye Dam. 1, H318 STOT SE 3, H335	-	[1] [2]
(dimethylaminomethyl) phenol01-2119560597-27 EC: 202-013-9 CAS: 90-72-2 Index: 603-069-00-0Acute Tox. 4, H312 Skin Corr. 1C, H314 Eye Dam. 1, H318kgATE [Dermal] = 1280 mg/kgethylbenzeneREACH #: 01-2119489370-35 EC: 202-849-4 CAS: 100-41-4 Index: 601-023-00-4 $\geq 1.0 - \leq 5.0$ Flam. Liq. 2, H225 Acute Tox. 4, H332 STOT RE 2, H373 (hearing organs) Aputic Chronic 3, H412ATE [Inhalation (vapours)] = 17.8 mg/l[1] [2]3,6-diazaoctanethylenediaminEC: 203-950-6 CAS: 112-24-3 Index: 612-059-00-5 $\geq 1.0 - < 5.0$ Acute Tox. 4, H302 Acute Tox. 4, H312 Skin Sens. 1, H314 Eye Dam. 1, H318ATE [Oral] = 1716 mg/ kg[1] [2]	benzyl alcohol	01-2119492630-38 EC: 202-859-9 CAS: 100-51-6	≥10 - ≤25	Acute Tox. 4, H332	kg ATE [Inhalation (dusts	[1] [2]
$\begin{array}{c} 01-2119489370-35\\ EC: 202-849-4\\ CAS: 100-41-4\\ Index: 601-023-00-4\\ \end{array}$ $\begin{array}{c} Acute Tox. 4, H332\\ STOT RE 2, H373\\ (hearing organs)\\ Asp. Tox. 1, H304\\ Aquatic Chronic 3, H412\\ \end{array}$ $\begin{array}{c} Acute Tox. 4, H332\\ StoT RE 2, H373\\ (hearing organs)\\ Asp. Tox. 1, H304\\ Aquatic Chronic 3, H412\\ \end{array}$ $\begin{array}{c} ATE [Oral] = 1716 mg/\\ kg\\ ATE [Dermal] = 1465\\ mg/kg\\ \end{array}$	2,4,6-tris (dimethylaminomethyl) phenol	01-2119560597-27 EC: 202-013-9 CAS: 90-72-2	≥5.0 - ≤10	Acute Tox. 4, H312 Skin Corr. 1C, H314	kg ATE [Dermal] = 1280	[1]
CAS: 112-24-3 Acute Tox. 4, H312 kg Index: 612-059-00-5 Skin Corr. 1B, H314 ATE [Dermal] = 1465 Skin Sens. 1, H318 Skin Sens. 1, H317 Aquatic Chronic 3, H412 H12	ethylbenzene	01-2119489370-35 EC: 202-849-4 CAS: 100-41-4	≥1.0 - ≤5.0	Acute Tox. 4, H332 STOT RE 2, H373 (hearing organs) Asp. Tox. 1, H304		[1] [2]
	3,6-diazaoctanethylenediamin	CAS: 112-24-3	≥1.0 - <5.0	Acute Tox. 4, H312 Skin Corr. 1B, H314 Eye Dam. 1, H318 Skin Sens. 1, H317	kg ATE [Dermal] = 1465	[1] [2]
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Conforms to Regulation (EC) No.	1907/2006 (REACH),	Annex II, as amended by	Commission Regulation (EU)	
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SECTION 3: Composition/information on ingredients

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.

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

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.
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.

4.2 Most important symptoms and effects, both acute and delayed

Potential acute health effect	
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/sympto	<u>ms</u>
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
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SECTION 4: First aid	l measures
Ingestion	: Adverse symptoms may include the following: stomach pains
4.3 Indication of any immedi	ate 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 hazards arising f	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 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.
SECTION 6: Accider	ntal release measures
6.1 Personal precautions, pr	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. 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	

- 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.

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SECTION 6: Accidental release measures

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 sections	: See Section 1 for emergency contact information. See 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

: 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.
: 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.
: 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.

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SECTION 7: Handling and storage

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 γlene	EU OEL (Europe, 1/2022). [xylene, mixed isomers pure]
	Absorbed through skin.
	STEL: 442 mg/m ³ 15 minutes.
	STEL: 100 ppm 15 minutes.
	TWA: 221 mg/m ³ 8 hours.
	TWA: 50 ppm 8 hours.
2-methylpropan-1-ol	ACGIH TLV (United States, 1/2023).
	TWA: 152 mg/m ³ 8 hours.
	TWA: 50 ppm 8 hours.
benzyl alcohol	IPEL (-).
	TWA: 5 ppm
	STEL: 10 ppm
ethylbenzene	EU OEL (Europe, 1/2022). Absorbed through skin.
	STEL: 884 mg/m ³ 15 minutes.
	STEL: 200 ppm 15 minutes.
	TWA: 442 mg/m ³ 8 hours.
	TWA: 100 ppm 8 hours.
3,6-diazaoctanethylenediamin	IPEL (-). Absorbed through skin.
	TWA: 1 ppm

Recommended monitoring procedures : Reference should be made to monitoring standards, such as the following: European Standard EN 689 (Workplace atmospheres - Guidance for the assessment of exposure by inhalation to chemical agents for comparison with limit values and measurement strategy) European Standard EN 14042 (Workplace atmospheres - Guide for the application and use of procedures for the assessment of exposure to chemical and biological agents) European Standard EN 482 (Workplace atmospheres - General requirements for the performance of procedures for the measurement of chemical agents) Reference to national guidance documents for methods for the determination of hazardous substances will also be required.

DNELs

Product/ingredient name	Туре	Exposure	Value	Population	Effects
Fatty acids, C18-unsatd., dimers, oligomeric reaction products with tall- oil fatty acids and triethylenetetramine	DNEL	Long term Oral	97.2 μg/kg bw/day	General population	Systemic
	DNEL	Long term Dermal	97.2 µg/kg bw/day	General population	Systemic
	DNEL	Long term Inhalation	0.169 mg/m ³	General population	Systemic
	DNEL	Long term Dermal	0.272 mg/kg bw/ day	Workers	Systemic
	DNEL	Long term Inhalation	0.952 mg/m ³	Workers	Systemic
xylene	DNEL	Long term Oral	12.5 mg/kg bw/day	General population	Systemic
	DNEL	Long term Inhalation	65.3 mg/m³	General population	Local
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	DNEL	Long term Inhalation	65.3 mg/m ³	General	Systemic
				population	
	DNEL	Long term Dermal	125 mg/kg bw/day	General population	Systemic
	DNEL	Long term Dermal	212 mg/kg bw/day	Workers	Systemic
	DNEL	Long term Inhalation	221 mg/m ³	Workers	Local
	DNEL	Long term Inhalation	221 mg/m ³	Workers	Systemic
	DNEL	Short term Inhalation	260 mg/m ³	General	Local
				population	
	DNEL	Short term Inhalation	260 mg/m³	General population	Systemic
	DNEL	Short term Inhalation	442 mg/m ³	Workers	Local
	DNEL	Short term Inhalation	442 mg/m ³	Workers	Systemic
2-methylpropan-1-ol	DNEL	Long term Inhalation	55 mg/m³	General population	Local
	DNEL	Long term Inhalation	310 mg/m ³	Workers	Local
benzyl alcohol	DNEL	Long term Oral	4 mg/kg bw/day	General	Systemic
				population	-
	DNEL	Long term Dermal	4 mg/kg bw/day	General population	Systemic
	DNEL	Long term Inhalation	5.4 mg/m³	General population	Systemic
	DNEL	Long term Dermal	8 mg/kg bw/day	Workers	Systemic
	DNEL	Short term Oral	20 mg/kg bw/day	General population	Systemic
	DNEL	Short term Dermal	20 mg/kg bw/day	General population	Systemic
	DNEL	Long term Inhalation	22 mg/m³	Workers	Systemic
	DNEL	Short term Inhalation	27 mg/m ³	General population	Systemic
	DNEL	Short term Dermal	40 mg/kg bw/day	Workers	Systemic
	DNEL	Short term Inhalation	110 mg/m ³	Workers	Systemic
2,4,6-tris(dimethylaminomethyl)phenol	DNEL	Long term Oral	0.075 mg/kg bw/ day	General population	Systemic
	DNEL	Short term Dermal	0.075 mg/kg bw/ day	General	Systemic
	DNEL	Long term Dermal	0.075 mg/kg bw/ day	General	Systemic
	DNEL	Short term Inhalation	0.13 mg/m ³	General	Systemic
	DNEL	Long term Inhalation	0.13 mg/m³	General	Systemic
	DNEL	Long term Dermal	0.15 mg/kg bw/day	Workers	Systemic
	DNEL	Long term Inhalation	0.53 mg/m ³	Workers	Systemic
	DNEL	Short term Dermal	0.6 mg/kg bw/day	Workers	Systemic
	DNEL	Short term Inhalation	2.1 mg/m ³	Workers	Systemic
ethylbenzene	DMEL	Long term Inhalation	442 mg/m ³	Workers	Local
	DMEL	Short term Inhalation	884 mg/m ³	Workers	Systemic
	DNEL	Long term Oral	1.6 mg/kg bw/day	General	Systemic
	DNEL	Long term Inhalation	15 mg/m³	population General population	Systemic
	DNEL	Long term Inhalation	77 mg/m³	Workers	Systemic
	DNEL	Long term Dermal	180 mg/kg bw/day	Workers	Systemic
	DNEL	Short term Inhalation	293 mg/m ³	Workers	Local
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Product/ingredient name	Туре	Compartment Detail	Value	Method Detail				
Fatty acids, C18-unsatd., dimers,	-	Fresh water	0.043 mg/l	Assessment Factors				
oligomeric reaction products with tall-			0					
oil fatty acids and triethylenetetramine								
	-	Marine water	0 mg/l	Assessment Factors				
	-	Sewage Treatment Plant	3.84 mg/l	Assessment Factors				
	-	Fresh water sediment	434.02 mg/kg dwt	Equilibrium Partitioning				
	-	Marine water sediment	43.4 mg/kg dwt	Equilibrium Partitioning				
	-	Soil	86.78 mg/kg dwt	Equilibrium Partitioning				
xylene	-	Fresh water	0.327 mg/l	-				
	-	Marine water	0.327 mg/l	-				
	-	Sewage Treatment Plant	6.58 mg/l	-				
	-	Fresh water sediment	12.46 mg/kg dwt	-				
	-	Marine water sediment	12.46 mg/kg dwt	-				
	-	Soil	2.31 mg/kg	-				
2-methylpropan-1-ol	-	Fresh water	0.4 mg/l	Assessment Factors				
	-	Marine water	0.04 mg/l	Assessment Factors				
	-	Sewage Treatment Plant	10 mg/l	Assessment Factors				
	-	Fresh water sediment	1.56 mg/kg dwt	Equilibrium Partitioning				
	-	Marine water sediment	0.156 mg/kg dwt	-				
	-	Soil	0.076 mg/kg dwt	Equilibrium Partitioning				
ethylbenzene	-	Fresh water	0.1 mg/l	Assessment Factors				
	-	Marine water	0.01 mg/l	Assessment Factors				
	-	Sewage Treatment Plant	9.6 mg/l	Assessment Factors				
	-	Fresh water sediment	13.7 mg/kg dwt	Equilibrium Partitioning				
	-	Marine water sediment	1.37 mg/kg dwt	Equilibrium Partitioning				
	-	Soil	2.68 mg/kg dwt	Equilibrium Partitioning				
	-	Secondary Poisoning	20 mg/kg	-				

		English (GB)	Suriname	9/18
Skin protection Hand protection	:	Chemical-resistant, impervious gloves com worn at all times when handling chemical p necessary. Considering the parameters sp during use that the gloves are still retaining noted that the time to breakthrough for any glove manufacturers. In the case of mixtur protection time of the gloves cannot be acc frequently repeated contact may occur, a gl (breakthrough time greater than 480 minutes When only brief contact is expected, a glov (breakthrough time greater than 30 minutes The user must check that the final choice o product is the most appropriate and takes in as included in the user's risk assessment.	roducts if a risk assessment indicative cified by the glove manufacturer their protective properties. It sho glove material may be different for es, consisting of several substance urately estimated. When prolonge love with a protection class of 6 es according to EN 374) is recommended with a protection class of 2 or his according to EN 374) is recommended for the second	ates this is c, check uld be or different ces, the ed or mended. igher lended. ng this
Eye/face protection	:	Appropriate techniques should be used to r Contaminated work clothing should not be a contaminated clothing before reusing. Ens showers are close to the workstation location Chemical splash goggles and face shield.	allowed out of the workplace. Wa ure that eyewash stations and saf	ish
Individual protection mea Hygiene measures		Wash hands, forearms and face thoroughly eating, smoking and using the lavatory and	at the end of the working period.	
8.2 Exposure controls Appropriate engineering controls		Use only with adequate ventilation. Use pro other engineering controls to keep worker e recommended or statutory limits. The engi vapour or dust concentrations below any lo ventilation equipment.	exposure to airborne contaminants neering controls also need to kee	s below any p gas,

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Gloves	: nitrile neoprene
Body 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.
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	: 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.

SECTION 9: Physical and chemical properties

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

3.1 mormation on basic physic	arai	
<u>Appearance</u>		
Physical state	:	Liquid.
Colour	:	Colourless.
Odour	1	Amine-like.
Odour threshold	:	Not available.
Melting point/freezing point	:	May start to solidify at the following temperature: $12^{\circ}C$ (53.6°F) This is based on data for the following ingredient: 3,6-diazaoctanethylenediamin. Weighted average: -64.11°C (-83.4°F)
Initial boiling point and boiling range	:	>37.78°C
Flammability	1	Not available.
Upper/lower flammability or explosive limits	:	Greatest known range: Lower: 1.3% Upper: 13% (benzyl alcohol)
Flash point	:	Closed cup: 31°C
Auto-ignition temperature	:	335°C (635°F)
Decomposition temperature	:	Stable under recommended storage and handling conditions (see Section 7).
рН	:	Not applicable. insoluble in water.
Viscosity	:	Kinematic (40°C): >21 mm²/s
Solubility(ies)	1	
Media		Result
cold water		Not soluble
Partition coefficient: n-octanol water	/:	Not applicable.
Vapour pressure	:	

9.1 Information on basic physical and chemical properties

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SECTION 9: Physical and chemical properties

			Vapoι	ır Pres	sure at 20°C	Vap	our pres	sure at 50°C
		Ingredient name	mm Hg	kPa	Method	mm Hg	kPa	Method
		2-methylpropan-1-ol	<12.00102	<1.6	DIN EN 13016-2			
Evaporation rate	:	Highest known value butyl acetate	e: 0.84 (etł	nylbenz	ene) Weighteo	d average	e: 0.5com	pared with
Relative density	:	0.95						
Vapour density	:	Highest known value average: 3.43 (Air =	· ·	r = 1)((3,6-diazaoctar	nethylene	diamin).	Weighted
Explosive properties	:	The product itself is vapour or dust with			t the formation	of an exp	olosible n	nixture of
Oxidising properties	:	Product does not pro	esent an o	xidizing	hazard.			
Particle characteristics								
article characteristics		Not applicable.						

9.2 Other information

No additional information.

SECTION 10: Stabilit	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	: 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
Fatty acids, C18-unsatd., dimers,	LD50 Dermal	Rat	>2000 mg/kg	-
oligomeric reaction products with tall-oil				
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
	English (GB)	Su	iriname	11/18

Code : 00218768 Date of issue/Date of revision : 17 February 2024 SIGMAZINC 102 HS / 109 HS HARDENER **SECTION 11: Toxicological information** 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 _ 4 hours LC50 Inhalation Vapour 17.8 mg/l ethylbenzene Rat Rabbit 17.8 g/kg LD50 Dermal LD50 Oral 3.5 g/kg Rat _ 3,6-diazaoctanethylenediamin 1465 mg/kg LD50 Dermal Rabbit -

LD50 Oral	Rat

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

Skin : There are no data available on the n	mixture itself.
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- 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 toxic	<u>ity (single exposure)</u>

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)

English (GB)

1716 mg/kg

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

Aspiration hazard

Product/II	ng	redient name	Result
xylene ethylbenzene			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. Ca	auses 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 phy	ysi	ical, chemical and toxicological c	haracteristics
Inhalation	:	Adverse symptoms may include the respiratory tract irritation coughing	e following:
Ingestion	:	Adverse symptoms may include the stomach pains	e following:
Skin contact	:	Adverse symptoms may include the pain or irritation redness dryness cracking blistering may occur	e following:
Eye contact	:	Adverse symptoms may include the pain watering redness	e following:
Delayed and immediate effe	<u>cts</u>	s as well as chronic effects from s	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 Not available.			
Conclusion/Summary	:	Not available.	
-		Prolonged or repeated contact can	defat the skin and lead to irritation, cracking and/or
General	Ì	exposed to very low levels.	ere allergic reaction may occur when subsequently
General Carcinogenicity			
	:	exposed to very low levels.	ical hazards.
Carcinogenicity	: :	exposed to very low levels. No known significant effects or crit	ical hazards. ical hazards.

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SECTION 11: Toxicological information

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.

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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

Product/ingredient name	Result	Species	Exposure
Fatty 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 2,4,6-tris(dimethylaminomethyl)phenol ethylbenzene	Acute EC50 1100 mg/l Acute LC50 175 mg/l Acute EC50 1.8 mg/l Fresh water Chronic NOEC 1 mg/l Fresh water	Daphnia Fish Daphnia Daphnia - <i>Ceriodaphnia dubia</i>	48 hours 96 hours 48 hours -

Conclusion/Summary

: There are no data available on the mixture itself.

12.2 Persistence and degradability

Product/ingredient name	Test	Result			Dose	Inoculum
ethylbenzene	-	79 % - F	79 % - Readily - 10 days -		-	-
Conclusion/Summary	: There are	no data availabl	e on the mixtu	re itself.		
Product/ingredient name		Aqua	tic half-life	Photo	olysis	Biodegradability
Fatty acids, C18-unsatd., dim reaction products with tall-oil 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.

English (GB)

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SECTION 12: Ecological information

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.

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.

SECTION 14: Transport information

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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, FLAMMABLE, CORROSIVE	PAINT, FLAMMABLE, CORROSIVE	PAINT, FLAMMABLE, CORROSIVE
14.3 Transport hazard class(es)	3 (8)	3 (8)	3 (8)
14.4 Packing group	III	III	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 ≤5 L or ≤5 kg.
ΙΑΤΑ	: The environmentally hazardous substance mark may appear if required by other transportation regulations.
14.6 Special precautions for : 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.
Explosive precursors : Not applicable.
Ozone depleting substances (1005/2009/EU)

Ozone depleting substances (1005/2009/

Not listed.

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SECTION 15: Re	egulatory information		
Seveso Directive			
This product is contro	lled under the Seveso Directive.		
Danger criteria			
Category			
P5c E2			
15.2 Chemical safety : No Chemical Safety Assessment has been carried out. assessment			
SECTION 16: Of	her information		
Indicates information	n that has changed from previously is	sued version.	
Abbreviations and acronyms	ind : ATE = Acute Toxicity Estimate CLP = Classification, Labelling and Packaging Regulation [Regulation (EC) No. 1272/2008] DNEL = Derived No Effect Level EUH statement = CLP-specific Hazard statement PNEC = Predicted No Effect Concentration RRN = REACH Registration Number		
Procedure used to derive the classification according to Regulation (EC) No. 1272/2008 [CLP/GHS]			
	Classification	Justification	
Flam. Liq. 3, H226 Skin Corr. 1C, H314 Eye Dam. 1, H318		On basis of test data Calculation method Calculation method	

	Enç	glish (GB)	Suriname	17/18
Full text of classifications [CLP/GHS]		LONG-TERM (C ASPIRATION H/ SERIOUS EYE I SERIOUS EYE I FLAMMABLE LI FLAMMABLE LI SKIN CORROSI SKIN CORROSI	sting effects.	RD - Category 3 I - Category 1 I - Category 2 y 1B y 1C
Full text of abbreviated H statements	H226Flammable liqH302Harmful if swaH304May be fatal ifH312Harmful in corH314Causes sevenH315Causes sevenH317May cause anH318Causes seriouH319Causes seriouH332Harmful if inhaH335May cause resH336May cause droH373May cause da	swallowed and entent ntact with skin. e skin burns and eye ritation. allergic skin reaction is eye damage. is eye irritation. aled. spiratory irritation. owsiness or dizzines mage to organs thro	ers airways. e damage. n. s. ugh prolonged or repeated	exposure.
Skin Sens. 1, H317 STOT SE 3, H335 Aquatic Chronic 2, H411		Calculation me Calculation me Calculation me	thod thod	

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SECTION 16: Other information

	Skin Sens. 1	SKIN SENSITISATION - Category 1
	Skin Sens. 1A	SKIN SENSITISATION - Category 1A
	STOT RE 2	SPECIFIC TARGET ORGAN TOXICITY - REPEATED EXPOSURE - Category 2
	STOT SE 3	SPECIFIC TARGET ORGAN TOXICITY - SINGLE EXPOSURE - Category 3
<u>History</u>		
Date of issue/ Date of revision	: 17 February 2024	
Date of previous issue	: 5 January 2022	
Prepared by	: EHS	
Version	: 19.05	
D'a da la su		

<u>Disclaimer</u>

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