### Conforms to Regulation (EC) No. 1907/2006 (REACH), Annex II, as amended by UK REACH Regulation SI 2019/758

# SAFETY DATA SHEET

Date of issue/Date of revision

: 24 October 2023

: 1.01 Version



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

1.1 Product identifier		
Product name	1	SIGMAZINC 68 SP HARDENER
Product code	:	00324794
Product description	1	
Product type	1	Liquid.
Other means of identification	1	Not available.
1.2 Relevant identified uses	of 1	the substance or mixture and uses advised against
Product use	1	Professional applications, Used by spraying.
Use of the substance/ mixture	:	Coating.
Uses advised against	1	Product is not intended, labelled or packaged for consumer use.

### 1.3 Details of the supplier of the safety data sheet

PPG Coatings Belgium BV/SRL Tweemontstraat 104 B-2100 Deurne Belgium Telephone +32-33606311 Fax +32-33606435

e-mail address of person

: Product.Stewardship.EMEA@ppg.com

### responsible for this SDS

### 1.4 Emergency telephone number

**Supplier** 

+31 20 4075210

## **SECTION 2: Hazards identification**

### 2.1 Classification of the substance or mixture

**Product definition** : Mixture **Classification according to UK CLP/GHS** 

Flam. Liq. 3, H226 Acute Tox. 4, H302 Skin Corr. 1C, H314 Eye Dam. 1, H318 Skin Sens. 1, H317 STOT RE 2, H373 Aquatic Chronic 3, H412

The product is classified as hazardous according to UK CLP Regulation SI 2019/720 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



Code : 00324794 SIGMAZINC 68 SP HARDENER	Date of issue/Date of revision	: 24 October 2023
SECTION 2: Hazards identification		

Hazard statements	:	Flammable liquid and vapour. Harmful if swallowed. Causes severe skin burns and eye damage. May cause an allergic skin reaction. May cause damage to organs through prolonged or repeated exposure. Harmful to aquatic life with long lasting effects.
Precautionary statements		
Prevention	:	Wear protective gloves, protective clothing and eye or face protection. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Do not breathe vapour.
Response	:	IF INHALED: Immediately call a POISON CENTER or doctor. IF SWALLOWED: Immediately call a POISON CENTER or doctor.
Storage	1	Not applicable.
Disposal	:	Dispose of contents and container in accordance with all local, regional, national and international regulations.
<b>_</b>		P280, P210, P260, P304 + P310, P301 + P310, P501
Supplemental label elements	1	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	ner	<u>its</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 according to Regulation (EC) No. 1907/2006, Annex XIII	:	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**

Mixture
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2.2 Mixtures

Propylidynetrimethanol, propoxylated, reaction products with ammoniaREACH #: 01-2119556886-20 EC: 500-105-6 CAS: 39423-51-3≥10 - <25	Product/ingredient name	Identifiers	%	Classification	Туре
$\begin{array}{l lllllllllllllllllllllllllllllllllll$	Epoxy Amine Resin	CAS: SUB123903	≥25 - ≤50	Eye Irrit. 2, H319	[1]
01-2119489370-35       Acute Tox. 4, H332         EC: 202-849-4       STOT RE 2, H373         CAS: 100-41-4       (hearing organs)         Index: 601-023-00-4       Asp. Tox. 1, H304	propoxylated, reaction products	01-2119556886-20 EC: 500-105-6	≥10 - <25	Acute Tox. 4, H302 Acute Tox. 4, H312 Eye Dam. 1, H318 Aquatic Chronic 2,	[1]
H412	ethylbenzene	01-2119489370-35 EC: 202-849-4 CAS: 100-41-4	≥10 - ≤25	Acute Tox. 4, H332 STOT RE 2, H373 (hearing organs) Asp. Tox. 1, H304 Aquatic Chronic 3,	[1] [2]

Code : 00324794 SIGMAZINC 68 SP HARDENER	Date	of issue/Date of revis	sion : 24 October 2	023
SECTION 3: Composit	ion/information on	ingredients		
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	[1]
xylene	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	[1] [2]
2-methylpropan-1-ol	REACH #: 01-2119484609-23 EC: 201-148-0 CAS: 78-83-1 Index: 603-108-00-1	≥5.0 - ≤8.1	Flam. Liq. 3, H226 Skin Irrit. 2, H315 Eye Dam. 1, H318 STOT SE 3, H335 STOT SE 3, H336	[1] [2]
m-phenylenebis(methylamine)	REACH #: 01-2119480150-50 EC: 216-032-5 CAS: 1477-55-0	≥1.0 - <5.0	Acute Tox. 4, H302 Acute Tox. 4, H332 Skin Corr. 1B, H314 Eye Dam. 1, H318 Skin Sens. 1B, H317 Aquatic Chronic 3, H412 EUH071	[1]
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 - ≤5.0	Acute Tox. 4, H302 Acute Tox. 4, H312 Skin Corr. 1C, H314 Eye Dam. 1, H318	[1]
			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 pxylene, 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

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

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

### **SECTION 4: First aid measures**

English (GB)	United Kingdom (UK) 3/16
Ingestion	: If swallowed, seek medical advice immediately and show the container or label. Keep person warm and at rest. Do NOT induce vomiting.
Skin contact	<ul> <li>Remove contaminated clothing and shoes. Wash skin thoroughly with soap and water or use recognised skin cleanser. Do NOT use solvents or thinners.</li> </ul>
Inhalation	<ul> <li>Remove to fresh air. Keep person warm and at rest. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel.</li> </ul>
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.
4.1 Description of first aid	measures

Code : 00324794 SIGMAZINC 68 SP HARDEI	Date of issue/Date of revision         : 24 October 2023           NER
SECTION 4: First ai	id measures
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 sympto	oms and effects, both acute and delayed
Potential acute health effect	<u>ots</u>
Eye contact	: Causes serious eye damage.
Inhalation	: No known significant effects or critical hazards.
Skin contact	: Causes severe burns. Defatting to the skin. May cause an allergic skin reaction.
Ingestion	: Harmful if swallowed.
Over-exposure signs/sym	iptoms
Eye contact	: Adverse symptoms may include the following: pain watering redness
Inhalation	: No specific data.
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 imme	diate medical attention and special treatment needed
Notes to physician	<ul> <li>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.</li> </ul>
Specific treatments	: No specific treatment.
SECTION 5: Firefig	hting measures
5.1 Extinguishing media	
Suitable extinguishing	: Use dry chemical, CO <sub>2</sub> , water spray (fog) or foam.

Unsuitable extinguishing media	: Do not use water jet.
media	

### 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 harmful to aquatic life with long lasting effects. Fire water contaminated with this material must be contained and prevented from being discharged to any waterway, sewer or drain.
Hazardous combustion products	:	Decomposition products may include the following materials: carbon oxides nitrogen oxides
5.3 Advice for firefighters		
Special protective actions 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.

English	(GB)
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media

Code : 00324794 SIGMAZINC 68 SP HARDENER	Date of issue/Date of revision	: 24 October 2023
SECTION 5: Firefighting measures		

# Special protective: Fire-fightersequipment for fire-fightersbreathing app

: Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

# 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.
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 (see Section 13). Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spill product. Note: see Section 1 for emergency contact information and Section 13 for waste disposal.
6.4 Reference to other sections	<ul> <li>See Section 1 for emergency contact information.</li> <li>See Section 8 for information on appropriate personal protective equipment.</li> <li>See Section 13 for additional waste treatment information.</li> </ul>

# **SECTION 7: Handling and storage**

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

### 7.1 Precautions for safe handling

Protective measures	: Put on appropriate personal protective equipment (see Section 8). 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.

Code	: 00324794	Date of issue/Date of revision	: 24 October 2023
SIGMAZINC 6	68 SP 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**

### 8.1 Control parameters

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).

### **Occupational exposure limits**

Product/ingredient name	Exposure limit values			
ethylbenzene	EH40/2005 WELs (United Kingdom (UK), 1/2020). Absorbed			
	through skin.			
	STEL: 552 mg/m <sup>3</sup> 15 minutes.			
	STEL: 125 ppm 15 minutes.			
	TWA: 441 mg/m <sup>3</sup> 8 hours.			
	TWA: 100 ppm 8 hours.			
xylene	EH40/2005 WELs (United Kingdom (UK), 1/2020). [xylene, o-,m-,p-			
	or mixed isomers] Absorbed through skin.			
	STEL: 441 mg/m <sup>3</sup> 15 minutes.			
	STEL: 100 ppm 15 minutes.			
	TWA: 220 mg/m <sup>3</sup> 8 hours.			
	TWA: 50 ppm 8 hours.			
2-methylpropan-1-ol	EH40/2005 WELs (United Kingdom (UK), 1/2020).			
	STEL: 231 mg/m <sup>3</sup> 15 minutes.			
	STEL: 75 ppm 15 minutes.			
	TWA: 154 mg/m <sup>3</sup> 8 hours.			
	TWA: 50 ppm 8 hours.			

#### **Biological exposure indices**

Product/ingredient name	Exposure indices
xylene	XYLENES
	d be made to appropriate monitoring standards. Reference to e documents for methods for the determination of hazardous also be required.

#### **DNELs/DMELs**

Code : 00324794 SIGMAZINC 68 SP HARDENER Date of issue/Date of revision : 24 October 2023

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

Product/ingredient name	Туре	Exposure	Value	Population	Effects
Propylidynetrimethanol,	DNEL	Long term Dermal	1.6 mg/kg bw/day	Workers	Systemic
propoxylated, reaction		Ū			
products with ammonia					
	DNEL	Long term Inhalation	14.1 mg/m <sup>3</sup>	Workers	Systemic
ethylbenzene	DNEL	Long term Oral	1.6 mg/kg bw/day	General population	Systemic
	DNEL	Long term Inhalation	15 mg/m <sup>3</sup>	General population	Systemic
	DNEL	Long term Inhalation	77 mg/m <sup>3</sup>	Workers	Systemic
	DNEL DNEL	Long term Dermal Short term Inhalation	180 mg/kg bw/day 293 mg/m³	Workers Workers	Systemic Local
	DMEL	Long term Inhalation	442 mg/m <sup>3</sup>	Workers	Local
	DMEL	Short term Inhalation	884 mg/m <sup>3</sup>	Workers	Systemic
benzyl alcohol	DNEL	Long term Oral	4 mg/kg bw/day	General population	Systemic
	DNEL	Long term Dermal	4 mg/kg bw/day	General population	Systemic
	DNEL	Long term Inhalation	5.4 mg/m <sup>3</sup>	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/m <sup>3</sup>	Workers	Systemic
	DNEL	Short term Inhalation	27 mg/m <sup>3</sup>	General population	Systemic
	DNEL	Short term Dermal	40 mg/kg bw/day	Workers	Systemic
	DNEL	Short term Inhalation	110 mg/m <sup>3</sup>	Workers	Systemic
xylene	DNEL	Short term Inhalation	260 mg/m <sup>3</sup>	General population	Systemic
	DNEL	Short term Inhalation	260 mg/m <sup>3</sup>	General population	Local
	DNEL	Long term Dermal	125 mg/kg bw/day	General population	Systemic
	DNEL	Long term Inhalation	65.3 mg/m <sup>3</sup>	General population	Systemic
	DNEL DNEL	Long term Oral Long term Inhalation	12.5 mg/kg bw/day 221 mg/m³	General population Workers	Systemic Systemic
	DNEL	Short term Inhalation	442 mg/m <sup>3</sup>	Workers	Systemic
	DNEL	Long term Inhalation	221 mg/m <sup>3</sup>	Workers	Local
	DNEL	Short term Inhalation	442 mg/m <sup>3</sup>	Workers	Local
	DNEL	Long term Dermal	212 mg/kg bw/day	Workers	Systemic
	DNEL	Long term Inhalation	65.3 mg/m <sup>3</sup>	General population	•
	DNEL	Short term Inhalation	260 mg/m <sup>3</sup>	General population	
	DNEL	Short term Inhalation	260 mg/m <sup>3</sup>	General population	Systemic
	DNEL	Long term Inhalation	221 mg/m³	Workers	Local
	DNEL	Long term Oral	12.5 mg/kg bw/day	General population	•
	DNEL	Long term Inhalation	65.3 mg/m <sup>3</sup>	General population	
		Long term Dermal	125 mg/kg bw/day	General population	
	DNEL	Long term Dermal	212 mg/kg bw/day	Workers	Systemic
		Long term Inhalation	221 mg/m <sup>3</sup>	Workers	Systemic
	DNEL DNEL	Short term Inhalation	442 mg/m <sup>3</sup>	Workers Workers	Local Svstemic
2-methylpropan-1-ol	DNEL	Short term Inhalation Long term Inhalation	442 mg/m³ 55 mg/m³	General population	Systemic Local
	DNEL	Long term Inhalation	310 mg/m <sup>3</sup>	Workers	Local
m-phenylenebis(methylamine)	DNEL	Long term Inhalation	$0.2 \text{ mg/m}^3$	Workers	Local
	DNEL	Long term Dermal	0.33 mg/kg bw/day	Workers	Systemic
	DNEL	Long term Inhalation	1.2 mg/m <sup>3</sup>	Workers	Systemic
2,4,6-tris	DNEL	Long term Oral	0.075 mg/kg bw/day	General population	Systemic
(dimethylaminomethyl)phenol		U U			-
	DNEL	Short term Dermal	0.075 mg/kg bw/day	General population	Systemic
	DNEL	Long term Dermal	0.075 mg/kg bw/day	General population	Systemic
	DNEL	Short term Inhalation	0.13 mg/m <sup>3</sup>	General population	Systemic
	DNEL	Long term Inhalation	0.13 mg/m <sup>3</sup>	General population	Systemic
	DNEL	Long term Dermal	0.15 mg/kg bw/day	Workers	Systemic
	DNEL	Long term Inhalation	0.53 mg/m <sup>3</sup>	Workers	Systemic
	DNEL	Short term Dermal	0.6 mg/kg bw/day	Workers	Systemic
	DNEL	Short term Inhalation	2.1 mg/m <sup>3</sup>	Workers	Systemic

**PNECs** 

Code : 00324794 SIGMAZINC 68 SP HARDENER Date of issue/Date of revision

: 24 October 2023

# SECTION 8: Exposure controls/personal protection

Product/ingredient name	Compartment Detail	Value	Method Detail
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	-
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

English (GB)	United Kingdom (UK) 8/16
Other skin protection	<ul> <li>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.</li> </ul>
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.
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. nitrile neoprene
Eye/face protection <u>Skin protection</u>	: Chemical splash goggles and face shield.
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.
Individual protection meas	
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.

Code : 00324794	Date of issue/Date of revision	: 24 October 2023
SIGMAZINC 68 SP HARDENER		

# SECTION 8: Exposure controls/personal protection

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.

Appearance							
Physical state	: Liqu	uid					
Colour	: Var						
Odour		racteristic.					
Odour threshold		available.					
Melting point/freezing point	: May data	/ start to soli a for the follo	start to solidify at the following temperature: 14°C (57.2°F) This is based or for the following ingredient: m-phenylenebis(methylamine). Weighted avera 14°C (-57.9°F)				
Initial boiling point and boiling range		.78°C (>100°F)					
Flammability (solid, gas)	: liqu	d					
Upper/lower flammability or explosive limits	: Gre	atest known	range: Lower: 1.3%	6 Upper: 13	% (benzyl a	lcohol)	
Flash point	: Clos	sed cup: 29°C (84.2°F)					
Auto-ignition temperature	:						
Ingredient name		°C	°F	N	lethod		
<b>Pr</b> opylidynetrimethanol, propoxylate products with ammonia	ed, reaction	320	608	E	J A.15		
Decomposition temperature	• :						
рН	: Not	applicable.					
	Not	applicable.	insoluble in water.				
Viscosity	: Kine	ematic (40°0	C): >21 mm²/s				
Solubility(ies)	:						
Media	R	esult					
cold water	N	ot soluble					
Miscible with water	: No.						
Miscible with water Partition coefficient: n-octar water		applicable.					
Partition coefficient: n-octa		applicable.					
Partition coefficient: n-octa water	nol/ : Not		sure at 20°C	v	apour pres	sure at 50°C	
Partition coefficient: n-octa water	nol/ : Not		sure at 20°C Method	V mm Hg	apour pres	sure at 50°C Method	

Relative density

Vapour density : Highest known value: 3.7 (Air = 1) (ethylbenzene). Weighted average: 3.55 (Air = 1)

0.99

English (GB)

Code : 00324794 SIGMAZINC 68 SP HARDENER	Date of issue/Date of revision	: 24 October 2023
<b>SECTION 9: Physical and che</b>	mical properties	

	• •
Explosive properties	The product itself is not explosive, but the formation of an explosible mixture of vapour or dust with air is possible.
Oxidising properties Particle characteristics	: Product does not present an oxidizing hazard.
Median particle size	: Not applicable.

# **SECTION 10: Stability and reactivity**

10.1 Reactivity	No specific test data related to reactivity available for this product or its ingre	dients.
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 oc	cur.
10.4 Conditions to avoid	When exposed to high temperatures may produce hazardous decomposition Refer to protective measures listed in sections 7 and 8.	n products.
10.5 Incompatible materials	Keep away from the following materials to prevent strong exothermic reactio oxidising agents, strong alkalis, strong acids.	ns:
10.6 Hazardous decomposition products	Depending on conditions, decomposition products may include the following materials: carbon oxides nitrogen oxides	

# **SECTION 11: Toxicological information**

### 11.1 Information on toxicological effects

### **Acute toxicity**

Product/ingredient name	Result	Species	Dose	Exposure
Propylidynetrimethanol,	LD50 Dermal	Rabbit	0.4 g/kg	-
propoxylated, reaction			0.0	
products with ammonia				
	LD50 Oral	Rat	0.22 g/kg	-
ethylbenzene	LC50 Inhalation Vapour	Rat	17.8 mg/l	4 hours
-	LD50 Dermal	Rabbit	17.8 g/kg	-
	LD50 Oral	Rat	3.5 g/kg	-
benzyl alcohol	LC50 Inhalation Dusts and	Rat	>4178 mg/m <sup>3</sup>	4 hours
	mists LD50 Dermal	Rabbit	2000 mg/kg	-
	LD50 Oral	Rat	1.23 g/kg	-
xylene	LD50 Dermal	Rabbit	1.7 g/kg	-
5	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	-
m-phenylenebis (methylamine)	LC50 Inhalation Gas.	Rat	700 ppm	1 hours
(monylamilo)	LD50 Dermal	Rat - Male,	>3100 mg/kg	-
		Female		
	LD50 Oral	Rat	930 mg/kg	-
2,4,6-tris	LD50 Dermal	Rabbit	1.28 g/kg	-
(dimethylaminomethyl) phenol				
	LD50 Dermal	Rat	1280 mg/kg	-
	LD50 Oral	Rat	1200 mg/kg	-

Acute toxicity estimates

English (GB)

Code : 0	0324794	Date of issue/Date of revision	: 24 October 2023
SIGMAZINC 68 S	SP HARDENER		

# **SECTION 11: Toxicological information**

Product/ingredient name	Oral (mg/ kg)	Dermal (mg/kg)	Inhalation (gases) (ppm)	Inhalation (vapours) (mg/l)	Inhalation (dusts and mists) (mg/l)
GMAZINC 68 SP HARDENER	1957.2	4455.9	109231.3	64.0	10.7
Propylidynetrimethanol, propoxylated, reaction	500	1100	N/A	N/A	N/A
products with ammonia					
ethylbenzene	3500	17800	N/A	17.8	N/A
benzyl alcohol	1230	N/A	N/A	N/A	1.5
xylene	4300	1700	N/A	11	N/A
2-methylpropan-1-ol	2830	2460	N/A	24.6	N/A
m-phenylenebis(methylamine)	930	N/A	4500	N/A	N/A
2,4,6-tris(dimethylaminomethyl)phenol	1200	1280	N/A	N/A	N/A

#### Irritation/Corrosion

Product/ingredient name	Result	Species	Score	Exposure	Observation
xylene	Skin - Moderate irritant	Rabbit	-	24 hours 500 mg	-
m-phenylenebis(methylamine) 2,4,6-tris	Skin - Severe irritant Skin - Visible necrosis	Rat Rabbit	-	4 hours 4 hours	4 hours 7 days
(dimethylaminomethyl)phenol Conclusion/Summary	Not available.				

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

:	There are no	data available	on the	mixture itself.
		aata aranabio	011 010	

### **Respiratory** : There are no data available on the mixture itself.

### **Sensitisation**

Eyes

Product/ingredient name	Route of exposure	Species	Result
m-phenylenebis(methylamine)	skin	Mouse	Sensitising

Conclusion/Summary	
Skin	: There are no data available on the mixture itself.
Respiratory	: There are no data available on the mixture itself.
<b>Mutagenicity</b>	
<b>Conclusion/Summary</b>	: There are no data available on the mixture itself.
<b>Carcinogenicity</b>	
<b>Conclusion/Summary</b>	: There are no data available on the mixture itself.
Reproductive toxicity	
<b>Conclusion/Summary</b>	: There are no data available on the mixture itself.
<b>Teratogenicity</b>	
<b>Conclusion/Summary</b>	:
	These are no data available on the mintum itself

There are no data available on the mixture itself.

### Specific target organ toxicity (single exposure)

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

Specific target organ toxicity (repeated exposure)

Code	: 00324794	Date of issue/Date of revision	: 24 October 2023
SIGMAZINC	68 SP HARDENER		

# SECTION 11: Toxicological information

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

### Aspiration hazard

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

Information on likely routes of exposure	1	Not available.
Potential acute health effects		
Eye contact	:	Causes serious eye damage.
Inhalation	:	No known significant effects or critical hazards.
Skin contact	:	Causes severe burns. Defatting to the skin. May cause an allergic skin reaction.
Ingestion	:	Harmful if swallowed.

### Symptoms related to the physical, chemical and toxicological characteristics

Eye contact	: Adverse symptoms may include the following: pain watering redness
Inhalation	: No specific data.
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

### Delayed and immediate effects 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	lot available.	
Potential chronic health eff		
Not available.		
Conclusion/Summary	lot available.	
General	May cause damage to organs through prolonged or repeated exposure. Por or repeated contact can defat the skin and lead to irritation, cracking and/o lermatitis. Once sensitized, a severe allergic reaction may occur when subsequently exposed to very low levels.	•
Carcinogenicity	lo known significant effects or critical hazards.	
Mutagenicity	lo known significant effects or critical hazards.	
Reproductive toxicity	No known significant effects or critical hazards.	

English (GB)	United Kingdom (UK)

Code : 00324794

SIGMAZINC 68 SP HARDENER

Date of issue/Date of revision

: 24 October 2023

**SECTION 11: Toxicological information** 

Other information

: Not available.

# **SECTION 12: Ecological information**

### 12.1 Toxicity

Product/ingredient name	Result	Species	Exposure
ethylbenzene	Acute EC50 1.8 mg/l Fresh water Chronic NOEC 1 mg/l Fresh water	Daphnia Daphnia - Ceriodaphnia dubia	48 hours -
2-methylpropan-1-ol 2,4,6-tris (dimethylaminomethyl) phenol	Acute EC50 1100 mg/l Acute LC50 175 mg/l	Daphnia Fish	48 hours 96 hours
Conclusion/Summary	: Not available.		

### 12.2 Persistence and degradability

Product/ingredient name	Test	Result	Dose	Inoculum
ethylbenzene	-	79 % - Readily - 10 days	-	-
Conclusion/Summary	: Not available.			
Product/ingredient name	Aquatic half-life	Pho	otolysis	Biodegradability
ethylbenzene benzyl alcohol xylene	- - -			Readily Readily Readily

### 12.3 Bioaccumulative potential

Product/ingredient name	LogPow	BCF	Potential	
Propylidynetrimethanol, propoxylated, reaction products with ammonia	-1.13	-	Low	
ethylbenzene	3.6	79.43	Low	
benzyl alcohol	0.87	-	Low	
xylene	3.12	7.4 to 18.5	Low	
2-methylpropan-1-ol	1	-	Low	
m-phenylenebis (methylamine)	0.18	2.69	Low	
2,4,6-tris (dimethylaminomethyl) phenol	0.219	-	Low	

### 12.4 Mobility in soil

Soil/water partition coefficient (K <sub>oc</sub> )	1	Not available.
Mobility	:	Not available.

### 12.5 Results of PBT and vPvB assessment

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

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

Code	: 00324794	Date of issue/Date of revision	: 24 October 2023
SIGMAZINC	68 SP HARDENER		

## **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 meth	nods
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.

#### Waste catalogue

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

### **Packaging**

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**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	Waste catalogue	
Container	15 01 06	mixed packaging
Special precautions	taken when Empty cont residues m container. thoroughly	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 Do not cut, weld or grind used containers unless they have been cleaned internally. Avoid dispersal of spilt material and runoff and contact with <i>y</i> ays, drains and sewers.

# **SECTION 14: Transport information**

	ADR/RID	ADN	IMDG	IATA
14.1 UN number	UN3469	UN3469	UN3469	UN3469
14.2 UN proper shipping name	PAINT, FLAMMABLE, CORROSIVE	PAINT, FLAMMABLE, CORROSIVE	PAINT, FLAMMABLE, CORROSIVE	PAINT, FLAMMABLE, CORROSIVE
14.3 Transport hazard class(es)	3 (8)	3 (8)	3 (8)	3 (8)
14.4 Packing group	111	Ш	111	Ш
14.5 Environmental hazards	No.	Yes.	No.	No.
Marine pollutant substances	Not applicable.	Not applicable.	Not applicable.	Not applicable.
Additional information				
ADR/RID :	None identified.			

**Tunnel code** : (D/E) **ADN** : The product is only regulated as an environmentally hazardous substance when transported in tank vessels. IMDG : None identified.

ΙΑΤΑ : None identified.

Code	: 00324794	Date of issue/Date of revision	: 24 October 2023
SIGMAZINC 6	88 SP HARDENER		

## **SECTION 14: Transport information**

14.6 Special precautions for :	Transport within user's premises: always transport in closed containers that are
user	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 available. according to IMO instruments

### **SECTION 15: Regulatory information**

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture <u>UK (GB)/REACH</u>

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.

**Ozone depleting substances** 

Not listed.

Annex XVII - Restrictions : Not applicable. on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles

### Seveso Directive

This product is controlled under the Seveso Directive.

Danger criteria

Category

P5c

# **SECTION 16: Other information**

Indicates information that has changed from previously issued version.

Abbreviations a	and : ATE = Acute Toxicity Estimate
acronyms	GB CLP = UK CLP (EC No 1272/2008) on the Classification, Labelling and
	Packaging of Substances and Mixtures as amended by (EU Exit) Regulations 2019
	No. 720 and amendments
	DMEL = Derived Minimal Effect Level
	DNEL = Derived No Effect Level
	EUH statement = GB CLP-specific Hazard statement
	N/A = Not available
	PBT = Persistent, Bioaccumulative and Toxic
	PNEC = Predicted No Effect Concentration
	RRN = REACH Registration Number
	SGG = Segregation Group
	vPvB = Very Persistent and Very Bioaccumulative

Procedure used to derive the classification

Code	: 00324794
SIGMATI	

Date of issue/Date of revision

: 24 October 2023

SIGMAZINC 68 SP HARDENER

### **SECTION 16: Other information**

Classification	Justification
Flam. Liq. 3, H226	On basis of test data
Acute Tox. 4, H302	Calculation method
Skin Corr. 1C, H314	Calculation method
Eye Dam. 1, H318	Calculation method
Skin Sens. 1, H317	Calculation method
STOT RE 2, H373	Calculation method
Aquatic Chronic 3, H412	Calculation method

### Full text of abbreviated H statements

Н	225	Highly flammable liquid and vapour.
H	226	Flammable liquid and vapour.
H	302	Harmful if swallowed.
Н	304	May be fatal if swallowed and enters airways.
H	312	Harmful in contact with skin.
H	314	Causes severe skin burns and eye damage.
H	315	Causes skin irritation.
H	317	May cause an allergic skin reaction.
H	318	Causes serious eye damage.
H	319	Causes serious eye irritation.
H	332	Harmful if inhaled.
H	335	May cause respiratory irritation.
H	336	May cause drowsiness or dizziness.
H	373	May cause damage to organs through prolonged or repeated exposure.
H	411	Toxic to aquatic life with long lasting effects.
H	412	Harmful to aquatic life with long lasting effects.
E	UH071	Corrosive to the respiratory tract.

### **Full text of classifications**

Acute Tox. 4	ACUTE TOXICITY - Category 4
Aquatic Chronic 2	LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 2
Aquatic Chronic 3	LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 3
Asp. Tox. 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. 2	FLAMMABLE LIQUIDS - Category 2
Flam. Liq. 3	FLAMMABLE LIQUIDS - Category 3
Skin Corr. 1B	SKIN CORROSION/IRRITATION - Category 1B
Skin Corr. 1C	SKIN CORROSION/IRRITATION - Category 1C
Skin Irrit. 2	SKIN CORROSION/IRRITATION - Category 2
Skin Sens. 1	SKIN SENSITISATION - Category 1
Skin Sens. 1B	SKIN SENSITISATION - Category 1B
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>

: 24 October 2023
: 9 November 2022
: EHS
: 1.01

### **Disclaimer**

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