# **SAFETY DATA SHEET**



Date of issue 9 March 2023

Version 2.05

### Section 1. Product and company identification

Product name
Product code
Other means of identification
Product type

- : SIGMAZINC 68 SP HARDENER
- : 00439980
- : Not available.
  - : Liquid.

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

#### **Identified uses**

Coating. Paints. Painting-related materials.

Uses advised against	Reason
Not applicable.	

Supplier's details:	
Supplier	<ul> <li>PPG Industrial do Brasil – Tintas e Vernizes Ltda</li> <li>Via Anhanguera KM 106, Bairro Sao Judas Tadeu</li> <li>Sumare / SP, Brasil</li> <li>55 19 2103-6000 (Recepção e Portaria)</li> </ul>
Email address:	: HazComLatam@ppg.com
Emergency telephone number	: 0800 707 1767 / 0800 707 7022 – Empresa Suatrans Cotec 0800 14 8110 – CEATOX - Centro de Assistência Toxicológica

### Section 2. Hazards identification

Classification of the substance or mixture	: FLAMMABLE LIQUIDS - Category 3 ACUTE TOXICITY (oral) - Category 4 ACUTE TOXICITY (dermal) - Category 4 ACUTE TOXICITY (inhalation) - Category 4 SKIN CORROSION - Category 1C SERIOUS EYE DAMAGE - Category 1 SKIN SENSITISATION - Category 1 CARCINOGENICITY - Category 2 SPECIFIC TARGET ORGAN TOXICITY - SINGLE EXPOSURE (Respiratory tract irritation) - Category 3 SHORT-TERM (ACUTE) AQUATIC HAZARD - Category 3 LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 3
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Target organs	: Contains material which causes damage to the following organs: blood, liver, heart,
	brain. Contains material which may cause damage to the following organs: kidneys, lungs the nervous system, gastrointestinal tract, upper respiratory tract, skin, central nervous system (CNS), ears, eye, lens or cornea.
	Percentage of the mixture consisting of ingredient(s) of unknown acute oral toxicity: 33.4%
	Percentage of the mixture consisting of ingredient(s) of unknown acute dermal toxicity: 33.4% Percentage of the mixture consisting of ingredient(s) of unknown acute inhalation toxicity: 52.9%
	Percentage of the mixture consisting of ingredient(s) of unknown hazards to the aquatic environment: 66.5%
GHS label elements	
Hazard pictograms	
Signal word	: Danger
Hazard statements	<ul> <li>Flammable liquid and vapour. Harmful if swallowed, in contact with skin or if inhaled. Causes severe skin burns and eye damage. May cause an allergic skin reaction. May cause respiratory irritation. Suspected of causing cancer. Harmful to aquatic life with long lasting effects.</li> </ul>
Precautionary statements	
Prevention	: Obtain special instructions before use. 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. Use explosion-proof electrical, ventilating or lighting equipment. Use non-sparking tools. Take action to prevent static discharges. Avoid release to the environment. Avoid breathing vapour. Do not eat, drink or smoke when using this product. Wash thoroughly after handling.
Response	: IF exposed or concerned: Get medical advice or attention. IF INHALED: Immediately call a POISON CENTER or doctor. IF SWALLOWED: Immediately cal a POISON CENTER or doctor. Rinse mouth. Do NOT induce vomiting. IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with wate Immediately call a POISON CENTER or doctor. Wash contaminated clothing before reuse. IF ON SKIN: Call a POISON CENTER or doctor if you feel unwell. Wash with plenty of water. If skin irritation or rash occurs: Get medical advice or attention. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or doctor.
Storage	: Store in a well-ventilated place. Keep container tightly closed. Keep cool.
Disposal	: Dispose of contents and container in accordance with all local, regional, national and international regulations.

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### Section 2. Hazards identification

**Other hazards which do not** : Prolonged or repeated contact may dry skin and cause irritation. result in classification

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### Section 3. Composition/information on ingredients

Substance/mixture	: Mixture
Other means of	: Not available.
identification	

#### **CAS number/other identifiers**

<b>CAS number</b> : Not applicable.		
Ingredient name	%	CAS number
🗾	30 - <60	SUB123903
xylene	15 - <20	1330-20-7
Propylidynetrimethanol, propoxylated, reaction products with ammonia	15 - <20	39423-51-3
benzyl alcohol	12.5 - <15	100-51-6
2-methylpropan-1-ol	5 - <7	78-83-1
m-phenylenebis(methylamine)	3 - <5	1477-55-0
2,4,6-tris(dimethylaminomethyl)phenol	3 - <5	90-72-2
ethylbenzene	3 - <5	100-41-4
	1	

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 and hence require reporting in this section.

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

SUB codes represent substances without registered CAS Numbers.

### Section 4. First aid measures

<b>Description of necessary fire</b>	at aid measures
Eye contact	<ul> <li>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.</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>
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.
Indication of immediate med	ical attention and special treatment needed, if necessary
Notes to physician Specific treatments	<ul> <li>In case of inhalation of decomposition products in a fire, symptoms may be delayed.</li> <li>The exposed person may need to be kept under medical surveillance for 48 hours. No specific treatment.</li> </ul>
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.
Potential acute health effects	<u>5</u>

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# Section 4. First aid measures

Eye contact	: Causes serious eye damage.
Inhalation	: Harmful if inhaled. May cause respiratory irritation.
Skin contact	: Causes severe burns. Harmful in contact with skin. Defatting to the skin. May cause an allergic skin reaction.
Ingestion	: Harmful if swallowed.

See toxicological information (Section 11)

### Section 5. Firefighting measures

Extinguishing media	
Suitable extinguishing media	: Use dry chemical, CO <sub>2</sub> , water spray (fog) or foam.
Unsuitable extinguishing media	: Do not use water jet.
Specific hazards arising from the chemical	: 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 thermal decomposition products	: Decomposition products may include the following materials: carbon oxides nitrogen oxides
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.
Special protective equipment for fire-fighters	<ul> <li>Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.</li> </ul>

### Section 6. Accidental release measures

Personal precautions, protect	ve 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".
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.

### Methods and material for containment and cleaning up

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Section 6. A	ccidental release	e measures			
Small spill	and explosion-p Alternatively, or	roof equipment. D if water-insoluble, a	tainers from spill area. L lute with water and mop absorb with an inert dry n er. Dispose of via a licer	up if water-solu naterial and pla	ıble. ce in an
Large spill	and explosion-p into sewers, wa effluent treatme combustible, ab and place in cor Dispose of via a	roof equipment. A ter courses, basem nt plant or proceed sorbent material e. ntainer for disposal licensed waste dis	tainers from spill area. Upproach the release from ents or confined areas. as follows. Contain and g. sand, earth, vermiculit according to local regula posal contractor. Conta d as the spilt product. N	a upwind. Preve Wash spillages collect spillage e or diatomace tions (see Sect minated absorb	ent entry into an with non- ous earth ion 13). ent

emergency contact information and Section 13 for waste disposal.

### Section 7. Handling and storage

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. Avoid exposure - obtain special instructions before use. Do not handle until all safety precautions have been read and understood. 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.
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.

### Section 8. Exposure controls/personal protection

<u>Control parameters</u> <u>Occupational exposure limits</u>

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## Section 8. Exposure controls/personal protection

Ingredient name			Exposure limits
vylene 2-methylpropan-1-ol			Ministry of Labor and Employment (Brazil 11/2001). [Xylenes (o-, m-, p- isomers)] TWA: 340 mg/m <sup>3</sup> 8 hours. TWA: 78 ppm 8 hours. Ministry of Labor and Employment (Brazil 11/2001). TWA: 115 mg/m <sup>3</sup> 8 hours.
m-phenylenebis(methylamine	)		TWA: 40 ppm 8 hours. ACGIH TLV (United States, 1/2022). Absorbed through skin.
ethylbenzene			C: 0.018 ppm <b>Ministry of Labor and Employment (Brazil</b> <b>11/2001).</b> TWA: 340 mg/m <sup>3</sup> 8 hours. TWA: 78 ppm 8 hours.
Recommended monitoring procedures	:		riate monitoring standards. Reference to nods for the determination of hazardous
Appropriate engineering controls	:	contaminants below any recommende	ls to keep worker exposure to airborne ed or statutory limits. The engineering controls concentrations below any lower explosive
<ul> <li>Environmental exposure controls</li> <li>Emissions from ventilation or work p they comply with the requirements or cases, fume scrubbers, filters or engineering</li> </ul>		Emissions from ventilation or work pro	ocess equipment should be checked to ensure environmental protection legislation. In some neering modifications to the process
ndividual protection measure	<u>es</u>		
Hygiene measures	:	before eating, smoking and using the Appropriate techniques should be use Contaminated work clothing should no	bughly after handling chemical products, lavatory and at the end of the working period. ed to remove potentially contaminated clothing. but be allowed out of the workplace. Wash Ensure that eyewash stations and safety ocation.
Eye protection Skin protection	÷	Chemical splash goggles and face sh	ield.
Hand protection	-	be worn at all times when handling ch this is necessary. Considering the pa check during use that the gloves are s should be noted that the time to break	s complying with an approved standard should emical products if a risk assessment indicates rameters specified by the glove manufacturer, still retaining their protective properties. It through for any glove material may be rers. In the case of mixtures, consisting of the of the gloves cannot be accurately

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### Section 8. Exposure controls/personal protection

Body protection	<ul> <li>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 anti-static protective clothing. For the greatest protection from static discharges, clothing should include anti-static overalls, boots and gloves.</li> </ul>
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>
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.

### Section 9. Physical and chemical properties

<u>Appearance</u>					
Physical state	1	Liquid.			
Colour	4	Colourless.	Colourless.		
Odour	1	Amine-like. [Strong]			
рН	4	Not applicable.			
Melting point	1	Not available.			
Boiling point	1	>37.78°C (>100°F)			
Flash point	1	Closed cup: 44°C (111.2°F	-)		
Evaporation rate	1	Not available.			
Flammability (solid, gas)	:	Not available.			
Lower and upper explosive (flammable) limits	;	Not available.			
Vapour pressure	1	Not available.			
Vapour density	1	Not available.			
Relative density	1	0.99			
Solubility(ies)		Media	Result		
· · · · · · · · · · · · · · · · · · ·	1	cold water	Not soluble		
Partition coefficient: n- octanol/water	:	Not applicable.			
Auto-ignition temperature	1	Not available.			
Decomposition temperature	:	Not available.			
Viscosity	1	Kinematic (40°C (104°F)):	>21 mm²/s (>21 cSt)		
Viscosity	:	60 - 100 s (ISO 6mm)			

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### Section 10. Stability and reactivity

Reactivity	: No specific test data related to reactivity available for this product or its ingredients.
Chemical stability	: The product is stable.
Possibility of hazardous reactions	: Under normal conditions of storage and use, hazardous reactions will not occur.
Conditions to avoid	: When exposed to high temperatures may produce hazardous decomposition products.
Incompatible materials	: Keep away from the following materials to prevent strong exothermic reactions: oxidising agents, strong alkalis, strong acids.
Hazardous decomposition products	: Depending on conditions, decomposition products may include the following material carbon oxides nitrogen oxides

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### Section 11. Toxicological information

#### Information on toxicological effects

Product/ingredient name	Result	Species	Dose	Exposure
xylene	LD50 Dermal	Rabbit	1.7 g/kg	-
,	LD50 Oral	Rat	4.3 g/kg	-
Propylidynetrimethanol,	LD50 Dermal	Rabbit	0.4 g/kg	-
propoxylated, reaction products with ammonia				
	LD50 Oral	Rat	0.22 g/kg	-
benzyl alcohol	LC50 Inhalation Dusts and mists	Rat	>4178 mg/m <sup>3</sup>	4 hours
	LD50 Dermal	Rabbit	2000 mg/kg	-
	LD50 Oral	Rat	1.23 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
,	LD50 Dermal	Rat - Male, Female	>3100 mg/kg	-
	LD50 Oral	Rat	930 mg/kg	-
2,4,6-tris (dimethylaminomethyl)	LD50 Dermal	Rabbit	1.28 g/kg	-
phenol				
	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	-

Irritation/Corrosion

### Section 11. Toxicological information

Product/ingredient name	Result	Species	Score	Exposure	Observation
xylene	Skin - Moderate irritant	Rabbit	-	24 hours 500 mg	-
m-phenylenebis (methylamine)	Skin - Severe irritant	Rat	-	4 hours	4 hours
2,4,6-tris (dimethylaminomethyl) phenol	Skin - Visible necrosis	Rabbit	-	4 hours	7 days

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**Conclusion/Summary** 

: There are no data available on the mixture itself.

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

#### Respiratory Sensitisation

Skin

Eyes

Product/ingredient name	Route of exposure	Species	Result
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.
Mutagenicity	
Not available.	

#### Conclusion/Summary Carcinogenicity

: There are no data available on the mixture itself.

#### Not available.

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

#### **Classification**

Product/ingredient name	OSHA	IARC	NTP
kylene	-	3	
ethylbenzene	-	2B	

Carcinogen Classification code:

ACGIH: A1, A2, A3, A4, A5 IARC: 1, 2A, 2B, 3, 4 NTP: Proven, Possible OSHA: + Not listed or regulated as a carcinogen: -

#### **Reproductive toxicity**

Not available.

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

#### Teratogenicity

Not available.

**Conclusion/Summary** : There are no data available on the mixture itself. <u>Specific target organ toxicity (single exposure)</u>

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### Section 11. Toxicological information

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)

Name		Route of exposure	Target organs
ethylbenzene	Category 2	-	hearing organs

#### Target organs

: Contains material which causes damage to the following organs: blood, liver, heart, brain.

Contains material which may cause damage to the following organs: kidneys, lungs, the nervous system, gastrointestinal tract, upper respiratory tract, skin, central nervous system (CNS), ears, eye, lens or cornea.

#### Aspiration hazard

Name	Result
xylene benzyl alcohol	ASPIRATION HAZARD - Category 1 ASPIRATION HAZARD - Category 2
2-methylpropan-1-ol ethylbenzene	ASPIRATION HAZARD - Category 2 ASPIRATION HAZARD - Category 2 ASPIRATION HAZARD - Category 1

Information on likely routes of exposure	: Not available.
Potential acute health effects	
Eye contact	: Causes serious eye damage.
Inhalation	: Harmful if inhaled. May cause respiratory irritation.
Skin contact	: Causes severe burns. Harmful in contact with skin. Defatting to the skin. May cause an allergic skin reaction.
Ingestion	: Harmful if swallowed.
Symptoms related to the phy	sical, chemical and toxicological characteristics
Eye contact	: Adverse symptoms may include the following: pain watering redness
Inhalation	: Adverse symptoms may include the following: respiratory tract irritation coughing

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Skin contact		pain or irritation redness dryness cracking blistering may	occur		-		
Ingestion	:	Adverse symp stomach pains	otoms may inclue s	de the followi	ng:		
Delayed and immediate effe	<u>cts</u>	<u>as well as chr</u>	<u>onic effects fro</u>	m short and	l long-term ex	posure	
Conclusion/Summary	:	vapour conce in adverse he irritation and a Symptoms an drowsiness ar some of the a that repeated noise can cau If splashed in Ingestion may known, delaye short-term an exposure and transient corn for several ho permanent vis	data available or intrations in exce alth effects such adverse effects or nd signs include I nd, in extreme ca bove effects by exposure to org use greater heari the eyes, the liq y cause nausea, ed and immediat d long-term expo I eye contact. Ex- neal edema desc burs. This condit sual effects. Wh re is significantly	ess of the state on the kidney headache, dia ases, loss of absorption the anic solvent ing loss than uid may caus diarrhea and the effects and osure by oral prosure to an ribed as blue ion is typically nen the prope	ted occupation membrane and s, liver and cer zziness, fatigue consciousness rough the skin vapors in comb expected from se irritation and vomiting. Thi l also chronic e , inhalation and haze, halo eff y temporary ar r eye protectio	al exposure limit d respiratory system e, muscular weats s. Solvents may . There is some pination with contexposure to noi l reversible dama s takes into accord d dermal routes of been reported to ect, foggy or blut and does not cause n specified in Sector	t may result tem stem. kness, cause e evidence stant loud ise alone. age. ount, where nents from of to cause rred vision se ection 8 is
Short term exposure Potential immediate	:	There are no	data available oi	n the mixture	itself.		
effects Potential delayed effects Long term exposure	:	There are no	data available o	n the mixture	itself.		
Potential immediate effects	:	There are no	data available oi	n the mixture	itself.		
Potential delayed effects			data available oi	n the mixture	itself.		
Potential chronic health eff	ect	<u>s</u>					
Not available.							
General		or dermatitis. subsequently	repeated contac Once sensitized exposed to very	d, a severe al v low levels.	llergic reaction	may occur whe	n
Carcinogenicity	:	Suspected of exposure.	causing cancer.	Risk of can	cer depends o	n duration and le	vel of
Mutagenicity	1	No known sig	nificant effects o	or critical haza	ards.		
Reproductive toxicity	:	No known sig	nificant effects c	or critical haza	ards.		

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#### Numerical measures of toxicity

Acute toxicity estimates

Code

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Section	n 11. Toxicological infe	ormation			

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	1144.1	1684.8	51308.9	24.3	1.9
xylene	4300	1700	N/A	11	1.5
Propylidynetrimethanol, propoxylated, reaction products with ammonia	500	1100	N/A	N/A	N/A
benzyl alcohol	1230	2000	N/A	N/A	1.5
2-methylpropan-1-ol	2830	2460	N/A	24.6	N/A
m-phenylenebis(methylamine)	930	2500	4500	N/A	N/A
2,4,6-tris(dimethylaminomethyl)phenol	1200	1280	N/A	N/A	N/A
ethylbenzene	3500	17800	N/A	17.8	1.5

#### Other information

: Not available.

### Section 12. Ecological information

### **Ecotoxicity**

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

### Persistence/degradability

Product/ingredient name	Test	Result		Test Result		Dose		Inoculum
ethylbenzene	-	79 % - Readily - 10 days		-		-		
Product/ingredient name	Aquatic half-life		Photolysis		Biodeg	radability		
kylene benzyl alcohol ethylbenzene	- - -		- - -		Readily Readily Readily	/		

#### **Bioaccumulative potential**

Product/ingredient name	LogPow	BCF	Potential
<b>x</b> ylene	3.12	7.4 to 18.5	low
Propylidynetrimethanol, propoxylated, reaction	-1.13	-	low
products with ammonia			
benzyl alcohol	0.87	-	low
2-methylpropan-1-ol	1	-	low
m-phenylenebis (methylamine)	0.18	2.69	low
	0.219	-	low
ethylbenzene	3.6	79.43	low

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### Section 12. Ecological information

#### **Mobility in soil**

Soil/water partition	
coefficient (Koc)	

: Not available.

#### Other adverse effects : No known significant effects or critical hazards.

### Section 13. Disposal considerations

**Disposal methods** : 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 nonrecyclable 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. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. 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.

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### Section 14. Transport information

	Brazil (ANTT)	IMDG	IATA
UN number	UN3469	UN3469	UN3469
UN proper shipping name	PAINT, FLAMMABLE, CORROSIVE	PAINT, FLAMMABLE, CORROSIVE	PAINT, FLAMMABLE, CORROSIVE
Transport hazard class(es)	3 (8)	3 (8)	3 (8)
Packing group	III	III	III
Environmental hazards	No.	No.	No.
Marine pollutant substances	Not applicable.	Not applicable.	Not applicable.

#### **Additional information**

Brazil	: None identified.
<b>Risk number</b>	: 38
IMDG	: None identified.
ΙΑΤΑ	: None identified.

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.

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### Section 14. Transport information

## Transport in bulk according : Not applicable. to IMO instruments

### Section 15. Regulatory information

Safety, health and<br/>environmental regulations: No known specific national and/or regional regulations applicable to this product<br/>(including its ingredients).specific for the product: No known specific national and/or regional regulations applicable to this product

### Section 16. Other information

<u>History</u>	
Date of previous issue	: 10/17/2021
Version	: 2.05
Prepared by	: EHS
Key to abbreviations	<ul> <li>ADN = European Provisions concerning the International Carriage of Dangerous Goods by Inland Waterway</li> <li>ADR = The European Agreement concerning the International Carriage of Dangerous Goods by Road</li> <li>ATE = Acute Toxicity Estimate</li> <li>BCF = Bioconcentration Factor</li> <li>GHS = Globally Harmonized System of Classification and Labelling of Chemicals</li> <li>IATA = International Air Transport Association</li> <li>IMDG = International Maritime Dangerous Goods</li> <li>LogPow = logarithm of the octanol/water partition coefficient</li> <li>MARPOL = International Convention for the Prevention of Pollution From Ships, 1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution)</li> <li>RID = The Regulations concerning the International Carriage of Dangerous Goods by Rail</li> <li>UN = United Nations</li> </ul>
References	: ABNT NBR 14725-4: 2014 ANTT - National Land Transportation Agency

Indicates information that has changed from previously issued version.

#### **Disclaimer**

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