# **SAFETY DATA SHEET**



Date of issue 22 May 2021

Version 5

### Section 1. Product and company identification

Product name
Product code
Other means of identification
Product type

- : SIGMAZINC 102 HS / 109 HS HARDENER
- : 00393165
- : 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 Industries Colombia Ltda Calle 51 # 40-13 Municipio de Itagüí Antioquia, Colombia (57) (4) 3787400 (Porteria)</li> </ul>
Email address:	: HazComLatam@ppg.com
Emergency telephone number	: Colombia: 01 8000 916012 (CISPROQUIM) + 571 288 6012 (CISPROQUIM) Ecuador: 1800-59-3005 (CISPROQUIM) Peru: 080-050-847 (CISPROQUIM)

### Section 2. Hazards identification

Classification of the	<ul> <li>AMMABLE LIQUIDS - Category 3 ACUTE TOXICITY (oral) - Category 5</li> </ul>
substance or mixture	ACUTE TOXICITY (dermal) - Category 4
	ACUTE TOXICITY (inhalation) - Category 4
	SKIN CORROSION - Category 1C
	SERIOUS EYE DAMAGE - Category 1
	SKIN SENSITIZATION - Category 1
	CARCINOGENICITY - Category 2
	SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Respiratory tract
	irritation) - Category 3
	AQUATIC HAZARD (LONG-TERM) - Category 2

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Troduct name	
Section 2.	Hazards identification

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, 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: 48%
	Percentage of the mixture consisting of ingredient(s) of unknown acute dermal toxicity: 48%
	Percentage of the mixture consisting of ingredient(s) of unknown acute inhalation toxicity: 55.2%
	Percentage of the mixture consisting of ingredient(s) of unknown hazards to the aquatic environment: 48.6%
GHS label elements	
Hazard pictograms	
Signal word	: Danger
Hazard statements	<ul> <li>Mammable liquid and vapor. May be harmful if swallowed. Harmful 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. Toxic to aquatic life with long lasting effects.</li> </ul>
Precautionary statements	
Prevention	: Øbtain 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 vapor.
Response	: Collect spillage. IF exposed or concerned: Get medical advice or attention. IF INHALED: Immediately call a POISON CENTER or doctor. IF SWALLOWED: Immediately call 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 water. 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	Immediately call a POISON CENTER or doctor.  Store in a well-ventilated place. Keep container tightly closed. Keep cool.

### Section 2. Hazards identification

result in classification

Other hazards which do not : Zauses digestive tract burns. Prolonged or repeated contact may dry skin and cause irritation.

### Section 3. Composition/information on ingredients

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

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

CAS number : Not applicable.		
Ingredient name	%	CAS number
Fatty acids, C18-unsatd., dimers, oligomeric reaction products with tall-oil fatty acids and triethylenetetramine	20 - <30	68082-29-1
xylene 2-methylpropan-1-ol benzyl alcohol	12.5 - <15 12.5 - <15 12.5 - <15	1330-20-7 78-83-1 100-51-6
2,4,6-tris(dimethylaminomethyl)phenol 3,6-diazaoctanethylenediamin ethylbenzene	3 - <5 2 - <3 2 - <3	90-72-2 112-24-3 100-41-4

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

Description of necessary first	<u>st aid measures</u>		
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 recognized skin cleanser. Do NOT use solvents or thinners.		
Ingestion	: If swallowed, seek medical advice immediately and show this container or label. Keep person warm and at rest. Do NOT induce vomiting.		
Indication of immediate medical 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 effect	<u>s</u>		

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# Section 4. First aid measures

Eye contact	: Causes serious eye damage.
Inhalation	: 📕 armful 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	: May be harmful if swallowed. Corrosive to the digestive tract. Causes burns.

See toxicological information (Section 11)

### Section 5. Fire-fighting 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 vapor. 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 thermal decomposition products	: Decomposition products may include the following materials: carbon oxides nitrogen oxides halogenated compounds
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	tive 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 spilled material. Shut off all ignition sources. No flares, smoking or flames in hazard area. Do not breathe vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.
For emergency responders	: If specialized 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 spilled 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.

#### Methods and materials for containment and cleaning up

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Section 6. A	Section 6. Accidental release measures				
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 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 spilled product. Note: see Section 1 for emergency contact information and Section 13 for waste disposal.				

### Section 7. Handling and storage

Precautions for safe : handling	Fut 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 vapor 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 oxidizing 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 unlabeled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.

### Section 8. Exposure controls/personal protection

**Control parameters Occupational exposure limits** 

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# Section 8. Exposure controls/personal protection

Ingredient name			Exposure	limits	
Z-methylpropan-1-ol			STEL: 65 STEL: 15 TWA: 434 TWA: 100 <b>ACGIH TL</b>	V (United States, 3/2020). 1 mg/m <sup>3</sup> 15 minutes. 0 ppm 15 minutes. 4 mg/m <sup>3</sup> 8 hours. 0 ppm 8 hours. V (United States, 3/2020).	
ethylbenzene			TWA: 50 ACGIH TL	2 mg/m³ 8 hours. ppm 8 hours. <b>V (United States, 3/2020).</b> ppm 8 hours.	
Recommended monitoring procedures	:	If this product contains ingredients with atmosphere or biological monitoring re- of the ventilation or other control meal protective equipment. Reference sho standards. Reference to national guid determination of hazardous substance	nay be requi sures and/o uld be made dance docur	ired to determine the effectiver r the necessity to use respirato e to appropriate monitoring nents for methods for the	
Appropriate engineering controls	:	Use only with adequate ventilation. U ventilation or other engineering contro- contaminants below any recommender also need to keep gas, vapor or dust limits. Use explosion-proof ventilation	ols to keep w ed or statuto concentratio	vorker exposure to airborne ry limits. The engineering con ons below any lower explosive	trols
Environmental exposure controls	:	Emissions from ventilation or work pro they comply with the requirements of cases, fume scrubbers, filters or engine equipment will be necessary to reduct	ocess equip environmen neering moo	ment should be checked to ena tal protection legislation. In so lifications to the process	
ndividual protection measur	es				
Hygiene measures	:	Wash hands, forearms and face thord before eating, smoking and using the Appropriate techniques should be use Contaminated work clothing should no contaminated clothing before reusing showers are close to the workstation	lavatory and ed to remove ot be allowed Ensure that	d at the end of the working peri e potentially contaminated cloth d out of the workplace. Wash	ning.
Eye protection	:	Chemical splash goggles and face sh			
Skin protection Hand protection	:	Chemical-resistant, impervious gloves be worn at all times when handling ch this is necessary. Considering the pa check during use that the gloves are a should be noted that the time to break different for different glove manufactur several substances, the protection time estimated.	emical prod rameters sp still retaining through for rers. In the	ucts if a risk assessment indic pecified by the glove manufactu their protective properties. It any glove material may be case of mixtures, consisting o	ates ırer,
Gloves	:	nitrile neoprene			
Body protection	:	Personal protective equipment for the being performed and the risks involve before handling this product. When the wear anti-static protective clothing. F discharges, clothing should include an	d and shoul here is a risk or the greate	d be approved by a specialist < of ignition from static electrici est protection from static	
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Section 8. Expo	sure controls/	personal p	orotection		
Other skin protection	selected based of	on the task being	litional skin protection r performed and the risk andling this product.		
Respiratory protection	hazards of the p workers are exp appropriate, cert	roduct and the sa osed to concentra ified respirators.	ed on known or anticipa fe working limits of the ations above the exposi Use a properly fitted, a oved standard if a risk a	selected respirat ure limit, they mu ir-purifying or air-	or. If st use -fed

### **Section 9. Physical and chemical properties**

necessary.

Viscosity	: Kinematic (40°C (104°F)): >21 mm²/s (>21 cSt)	
Decomposition temperature	: Not available.	
Auto-ignition temperature	: Not available.	
Partition coefficient: n- octanol/water	: Not applicable.	
Solubility	: Insoluble in the following materials: cold water.	
Relative density	: 0.95	
Vapor density	: Not available.	
Vapor pressure	: Not available.	
Lower and upper explosive (flammable) limits	: Not available.	
Flammability (solid, gas)	: Not available.	
Evaporation rate	: Not available.	
Flash point	: Closed cup: 33°C (91.4°F)	
Boiling point	: >37.78°C (>100°F)	
Melting point	: Not available.	
рН	∶ Mot applicable.	
Odor	: Aromatic.	
Color	: Clear	
Physical state	: Liquid.	
Appearance		

### 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: oxidizing agents, strong alkalis, strong acids.

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### Section 10. Stability and reactivity

Hazardous decomposition products

: Depending on conditions, decomposition products may include the following materials: carbon oxides nitrogen oxides halogenated compounds

### Section 11. Toxicological information

#### Information on toxicological effects

Αсι	Jte	tox	icity

Product/ingredient name	Result	Species	Dose	Exposure
xylene	LD50 Dermal	Rabbit	1.7 g/kg	-
	LD50 Oral	Rat	4.3 g/kg	-
2-methylpropan-1-ol	LC50 Inhalation Vapor	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 mists	Rat	>4178 mg/m <sup>3</sup>	4 hours
-	LD50 Dermal	Rabbit	2000 mg/kg	-
	LD50 Oral	Rat	1.23 g/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	-
3,6-diazaoctanethylenediamin	LD50 Dermal	Rabbit	1465 mg/kg	-
	LD50 Oral	Rat	1716 mg/kg	-
ethylbenzene	LC50 Inhalation Vapor	Rat	17.8 mg/l	4 hours
	LD50 Dermal	Rabbit	17.8 g/kg	-
	LD50 Oral	Rat	3.5 g/kg	-

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

#### Irritation/Corrosion

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

Conclusion/Summa Skin

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

Sensitization

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Section 11. Toxico	ological	inforr	nation		
Product/ingredient name	Route of exposure	Sp	ecies	Result	
Atty acids, C18-unsatd., dimers, oligomeric reaction products with tall-oil fatty acids and triethylenetetramine	skin	Mo	ouse	Sensitizing	
2,4,6-tris (dimethylaminomethyl) phenol	skin	Gu	inea pig	Sensitizing	
, 3,6-diazaoctanethylenediamin	skin	Gu	inea pig	Sensitizing	
Not available. Conclusion/Summary Carcinogenicity Not available. Conclusion/Summary <u>Classification</u>	: There are	e no data a	available on the available on the		
Product/ingredient name	OSHA	IARC	NTP		
xylene ethylbenzene	-	3 2B	-		
Carcinogen Classification of	code:				
IARC: 1, 2A, 2B, 3, 4 NTP: Known to be a OSHA: + Not listed/not regula	a human carci	nogen; Reas	onably anticipated	l to be a human carcinogen	

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.

#### Specific target organ toxicity (single exposure)

Name	Category	Route of exposure	Target organs
<b>x</b> ylene	Category 3	-	Respiratory tract irritation
2-methylpropan-1-ol	Category 3	-	Respiratory tract irritation
	Category 3		Narcotic effects

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### Section 11. Toxicological information

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, upper respiratory tract, skin, central nervous system (CNS), ears, eye, lens or cornea.

#### Aspiration hazard

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

Information on the likely routes of exposure	: Not available.
Potential acute health effect	<u>cts</u>
Eye contact	: Causes serious eye damage.
Inhalation	: 📕 armful if inhaled. May cause respiratory irritation.
Skin contact	: Zauses severe burns. Harmful in contact with skin. Defatting to the skin. May cause an allergic skin reaction.
Ingestion	: $M$ ay be harmful if swallowed. Corrosive to the digestive tract. Causes burns.
Cumutome veloted to the v	
	hysical, 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
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 and also chronic effects from short and long term exposure

Code 00393165 Product name SIGMAZIN	Date of issue IC 102 HS / 109 HS HARDENER	22 May 2021	Version 5
Section 11. Toxic	ological information		
Conclusion/Summary	: There are no data available on the vapor concentrations in excess of in adverse health effects such as irritation and adverse effects on the Symptoms and signs include heard drowsiness and, in extreme cases some of the above effects by absended that repeated exposure to organic noise can cause greater hearing I If splashed in the eyes, the liquid Ingestion may cause nausea, diate known, delayed and immediate effects and long-term exposure and eye contact.	the stated occupational mucous membrane and he kidneys, liver and cen dache, dizziness, fatigue s, loss of consciousness orption through the skin. c solvent vapors in comb oss than expected from may cause irritation and rrhea and vomiting. This ffects and also chronic e	exposure limit may result respiratory system tral nervous system. a, muscular weakness, . Solvents may cause There is some evidence ination with constant loud exposure to noise alone. reversible damage. a takes into account, where ffects of components from
<u>Short term exposure</u>			
Potential immediate effects	: There are no data available on the	e mixture itself.	
Potential delayed effects	: There are no data available on the	e mixture itself.	
<u>Long term exposure</u>			
Potential immediate effects	: There are no data available on the	e mixture itself.	
Potential delayed effects	: There are no data available on the	e mixture itself.	
Potential chronic health eff	fects		
Not available.			
General	<ul> <li>Prolonged or repeated contact ca or dermatitis. Once sensitized, a subsequently exposed to very low</li> </ul>	severe allergic reaction	
Carcinogenicity	: Suspected of causing cancer. Ris exposure.	sk of cancer depends on	duration and level of

Mutagenicity	: No known significant effects or critical hazards.
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**Reproductive toxicity** : No known significant effects or critical hazards.

### Numerical measures of toxicity

### Acute toxicity estimates

Product/ingredient name	Oral (mg/ kg)	Dermal (mg/kg)	Inhalation (gases) (ppm)	Inhalation (vapors) (mg/l)	Inhalation (dusts and mists) (mg/l)
GMAZINC 102 HS / 109 HS HARDENER	2068.8	1994	N/A	31.1	2.2
xylene	4300	1700	N/A	11	1.5
2-methylpropan-1-ol	2830	2460	N/A	24.6	N/A
benzyl alcohol	1230	2000	N/A	N/A	1.5
2,4,6-tris(dimethylaminomethyl)phenol	1200	1280	N/A	N/A	N/A
3,6-diazaoctanethylenediamin	1716	1465	N/A	N/A	N/A
ethylbenzene	3500	17800	N/A	17.8	1.5

#### Other information

: Not available.

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### Section 12. Ecological information

**Ecotoxicity** 

Product/ingredient name	Result	Species	Exposure
Atty acids, C18-unsatd., dimers, oligomeric reaction products with tall-oil fatty acids and triethylenetetramine	EC10 1.78 mg/l	Algae	72 hours
2-methylpropan-1-ol	Acute EC50 1100 mg/l	Daphnia	48 hours
2,4,6-tris (dimethylaminomethyl)pheno	Acute LC50 175 mg/l	Fish	96 hours
ethylbenzene	Acute LC50 150 to 200 mg/l Fresh water	Fish	96 hours

#### Persistence/degradability

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

#### **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	0.219	-	low
(dimethylaminomethyl)phenol			
3,6-diazaoctanethylenediamin	-1.66 to -1.4	-	low
ethylbenzene	3.6	79.43	low

#### 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 minimized 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. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material

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# Section 13. Disposal considerations

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. Vapor 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 spilled material and runoff and contact with soil, waterways, drains and sewers.

### Section 14. Transport information

	UN	Brazil (ANTT)	IMDG	ΙΑΤΑ
UN number	UN3469	UN3469	UN3469	UN3469
UN proper shipping name	PAINT, FLAMMABLE, CORROSIVE	PAINT, FLAMMABLE, CORROSIVE	PAINT, FLAMMABLE, CORROSIVE	PAINT, FLAMMABLE, CORROSIVE
Transport hazard class(es)	3 (8)	3 (8)	3 (8)	3 (8)
Packing group	III	III	III	III
Environmental hazards Marine pollutant substances	Yes. The environmentally hazardous substance mark is not required. Not applicable.	Yes. The environmentally hazardous substance mark is not required. Not applicable.	Yes. (Polyamide)	Yes. The environmentally hazardous substance mark is not required. Not applicable.

Date of issue

#### **Additional information**

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

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.

Transport in bulk according : Not applicable. to IMO instruments

### Section 15. Regulatory information

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

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### Section 16. Other information

<u>History</u>	
Date of previous issue	: 12/13/2019
Version	: <b>5</b> 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.

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