# **SAFETY DATA SHEET**



### Conforms to Official Mexican Standard NOM-018-STPS-2015

Date of revision 1 July 2024

Version 7.01

Date of issue 1 July 2024

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

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Product name	: 🕅 AVEN 405 TROWEL BLUE - B
Product code	: 00465066
Other means of identification	: Not applicable.
Product type	: Liquid.
Relevant identified uses of	f the substance or mixture and uses advised against
Product use	: Industrial applications, Professional applications, Used by spraying.
Use of the substance/ mixture	: Hardener.; Coating.
Uses advised against	Not applicable.
Manufacturer	: PPG Industries, Inc. One PPG Place Pittsburgh, PA 15272
<u>Emergency telephone</u> <u>number</u>	: (412) 434-4515 (U.S.) (514) 645-1320 (Canada) SETIQ Interior de la República: 800-00-214-00 (México) SETIQ Ciudad de México: (55) 5559-1588 (México)
<b>Technical Phone Number</b>	: 888-977-4762

# **SECTION 2: Hazards identification**

Classification of the	: ACUTE TOXICITY (oral) - Category 4
substance or mixture	ACUTE TOXICITY (dermal) - Category 5 ACUTE TOXICITY (inhalation) - Category 4
	SKIN CORROSION - Category 1
	SERIOUS EYE DAMAGE - Category 1
	SKIN SENSITIZATION - Category 1
	TOXIC TO REPRODUCTION - Category 2
	SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) - Category 2
	Percentage of the mixture consisting of ingredient(s) of unknown acute toxicity: 5%
	(oral), 19.3% (dermal), 60.2% (inhalation)
GHS label elements	
Hazard pictograms	



Product name RAVEN 405 TROWEL BLUE - B

# **SECTION 2: Hazards identification**

Signal word		Danger
Hazard statements		H302 + H332 - Harmful if swallowed or if inhaled. H313 - May be harmful in contact with skin. H314 - Causes severe skin burns and eye damage. H317 - May cause an allergic skin reaction.
		H361 - Suspected of damaging fertility or the unborn child. H373 - May cause damage to organs through prolonged or repeated exposure. (kidneys)
Precautionary statements		
Prevention	:	<ul> <li>P201 - Obtain special instructions before use.</li> <li>P202 - Do not handle until all safety precautions have been read and understood.</li> <li>P280 - Wear protective gloves, protective clothing and eye or face protection.</li> <li>P271 - Use only outdoors or in a well-ventilated area.</li> <li>P260 - Do not breathe vapor.</li> <li>P270 - Do not eat, drink or smoke when using this product.</li> <li>P264 - Wash thoroughly after handling.</li> <li>P272 - Contaminated work clothing should not be allowed out of the workplace.</li> </ul>
Response	:	<ul> <li>P308 + P313 - IF exposed or concerned: Get medical advice or attention.</li> <li>P304 + P340, P310 - IF INHALED: Remove person to fresh air and keep comfortable for breathing. Immediately call a POISON CENTER or doctor.</li> <li>P301 + P310, P330, P331 - IF SWALLOWED: Immediately call a POISON CENTER or doctor. Rinse mouth. Do NOT induce vomiting.</li> <li>P303 + P361 + P353, P310 - IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water. Immediately call a POISON CENTER or doctor.</li> <li>P363 - Wash contaminated clothing before reuse.</li> <li>P302 + P312, P352 - IF ON SKIN: Call a POISON CENTER or doctor if you feel unwell. Wash with plenty of water.</li> <li>P333 + P351 + P338, P310 - 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.</li> </ul>
Storage	1	P405 - Store locked up.
Disposal	:	P501 - Dispose of contents and container in accordance with all local, regional, national and international regulations.
Other hazards which do not result in classification	:	Causes digestive tract burns. Contains a substance that may emit formaldehyde if stored beyond its shelf life and/or during cure at curing temperatures greater than 60C (140F). Emits toxic fumes when heated.
See toxicological information (Section 11)		

**SECTION 3: Composition/information on ingredients** 

Substance/mixture Product name	: Mixture : ℝAVEN 405 TROWEL BLUE - B	
Other means of identification	: Not applicable.	

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### Product name RAVEN 405 TROWEL BLUE - B

### **SECTION 3: Composition/information on ingredients**

Ingredient name	%	CAS number
m-phenylenebis(methylamine)	≥20 - ≤27	1477-55-0
4-nonylphenol, branched	≥10 - ≤20	84852-15-3
Poly[oxy(methyl-1,2-ethanediyl)], $\alpha$ -(2-aminomethylethyl)- $\omega$ -	≥10 - ≤18	9046-10-0 (n = 2-6)
(2-aminomethylethoxy)-		
1,3-Benzenedimethanamine, polymer with 2,2'-[(1-methylethylidene)bis	≥10 - ≤13	110839-13-9
(4,1-phenyleneoxymethylene)]bis[oxirane]		
cyclohex-1,2-ylenediamine	≥5.0 - ≤10	694-83-7
3-aminomethyl-3,5,5-trimethylcyclohexylamine	≥5.0 - ≤9.1	2855-13-2
4,4'-methylenebis(cyclohexylamine)	≥1.0 - ≤6.9	1761-71-3
Formaldehyde, polymer with benzenamine, hydrogenated	≥5.0 - ≤10	135108-88-2
Quaternary ammonium compounds, benzylbis(hydrogenated tallow alkyl) methyl, chlorides	≥1.0 - ≤5.0	61789-73-9

Any concentration shown as a range is to protect confidentiality or is due to batch variation.

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.

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

#### **Description of necessary first aid measures**

Eye contact	: Check for and remove any contact lenses. Immediately flush eyes with running water for at least 15 minutes, keeping eyelids open. Seek immediate medical attention.
Inhalation	<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	<ul> <li>Remove contaminated clothing and shoes. Wash skin thoroughly with soap and water or use recognized skin cleanser. Do NOT use solvents or thinners.</li> </ul>
Ingestion	: If swallowed, seek medical advice immediately and show this container or label. Keep person warm and at rest. Do NOT induce vomiting.

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Potential acute health effects	<u>s</u>		
Eye contact	1	Causes serious eye damage.	
Inhalation	1	Harmful if inhaled.	
Skin contact	:	Causes severe burns. May be harmful in contact with skin. May cause an allergic skin reaction.	
Ingestion	÷	Harmful if swallowed. Corrosive to the digestive tract. Causes burns.	

#### **Over-exposure signs/symptoms**

See toxicological information (Section 11)

Most important symptoms/effects, acute and delayed

Indication of immediate medical attention and special treatment needed, if necessary		
Notes to physician	: In case of inhalation of decomposition products in a fire, symptoms may be delayed.	
Specific treatments	The exposed person may need to be kept under medical surveillance for 48 hours. No specific treatment.	

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

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# **SECTION 5: Firefighting measures**

Extinguishing media	
Suitable extinguishing media	: Use an extinguishing agent suitable for the surrounding fire.
Unsuitable extinguishing media	: None known.
Specific hazards arising from the chemical	: In a fire or if heated, a pressure increase will occur and the container may burst.
Hazardous thermal decomposition products	: Decomposition products may include the following materials: carbon oxides nitrogen oxides metal oxide/oxides Formaldehyde.
Special protective actions for fire-fighters	<ul> <li>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.</li> </ul>
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, protective 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. 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).	
Methods and materials for co	itainment and cleaning up	
Small spill	: Stop leak if without risk. Move containers from spill area. 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.

### **SECTION 6: Accidental release measures**

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Large spill	: Stop leak if without risk. Move containers from spill area. 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

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. Avoid exposure - obtain special instructions before use Avoid exposure during pregnancy. 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. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Empty containers retain product residue and can be hazardous. Do not reuse container.	
Special precautions	:	Vapors may accumulate in low or confined areas or travel a considerable distance to a source of ignition and flash back. Vapors are heavier than air and may spread along floors. If this material is part of a multiple component system, read the Safety Data Sheet(s) for the other component or components before blending as the resulting mixture may have the hazards of all of its parts.	
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.	
Conditions for safe storage, including any incompatibilities	:	Do not store above the following temperature: 50°C (122°F). Store in accordance with local regulations. 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. 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.	

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

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

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

Ingredient name	Exposure limits
m-phenylenebis(methylamine)	NOM-010-STPS-2014 (Mexico, 4/2016). Absorbed through skin. CEIL: 0.1 mg/m³
4-nonylphenol, branched	None.
Poly[oxy(methyl-1,2-ethanediyl)], $\alpha$ -(2-aminomethylethyl)- $\omega$ -(2-aminomethylethoxy)-	None.
1,3-Benzenedimethanamine, polymer with 2,2'-[(1-methylethylidene) bis(4,1-phenyleneoxymethylene)]bis[oxirane]	None.
cyclohex-1,2-ylenediamine	None.
3-aminomethyl-3,5,5-trimethylcyclohexylamine	None.
4,4'-methylenebis(cyclohexylamine)	None.
Formaldehyde, polymer with benzenamine, hydrogenated	None.
Quaternary ammonium compounds, benzylbis(hydrogenated tallow alkyl)methyl, chlorides	None.

Key to abbreviations

С	= Ceiling Limit	-	STEL	<ul> <li>Short term exposure limit</li> </ul>
IPEL	= Internal Permissible Exposure Limit		TLV	= Threshold Limit Value
			TWA	<ul> <li>Time Weighted Average</li> </ul>

#### Consult local authorities for acceptable exposure limits.

Recommended monitoring procedures	:	Reference should be made to appropriate monitoring standards. Reference to national guidance documents for methods for the determination of hazardous substances will also be required.
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.
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.

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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.
Gloves	: butyl rubber
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.
Skin protection	
Eye/face protection	: 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 me	asures

Product name RAVEN 405 TROWEL BLUE - B

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

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.		
Color	:	Blue.		
Odor	1	Ammoniacal.		
Odor threshold	1	Not available.		
Molecular weight	1	Not applicable.		
рН	4	Not applicable.		
Melting point	1	Not available.		
Boiling point	1	>37.78°C (>100°F)		
Flash point	1	Closed cup: 100°C (212°F)		
Auto-ignition temperature	1	Not available.		
Decomposition temperature	1	Not available.		
Flammability	4	Not available.		
Lower and upper explosive (flammable) limits	1	Not available.		
Evaporation rate	:	Not available.		
Vapor pressure	:	Not available.		
Vapor density	1	Not available.		
Relative density	1	1.02		
Density(lbs / gal)	:	8.51		
		Media Result		
Solubility(ies)	1	cold water Not soluble		
Solubility in water	:	Not available.		
Partition coefficient: n- octanol/water	;	Not applicable.		
Viscosity	1	Kinematic (40°C (104°F)): >21 mm²/s (>21 cSt)		
Volatility	1	0% (v/v), 0.003% (w/w)		
% Solid. (w/w)	:	99.997		

# SECTION 10: Stability and reactivity

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Possibility of hazardous reactions	: Under normal conditions of storage and use, hazardous reactions will not occur.
Chemical stability	: The product is stable.
Reactivity	: No specific test data related to reactivity available for this product or its ingredients.

Product name RAVEN 405 TROWEL BLUE - B

## **SECTION 10: Stability and reactivity**

Conditions to avoid	:	When exposed to high temperatures may produce hazardous decomposition products. Refer to protective measures listed in sections 7 and 8.
Incompatible materials	:	Keep away from the following materials to prevent strong exothermic reactions: oxidizing agents, strong alkalis, strong acids.
Hazardous decomposition products	:	Depending on conditions, decomposition products may include the following materials: carbon oxides nitrogen oxides Formaldehyde. metal oxide/oxides

## **SECTION 11: Toxicological information**

### Information on toxicological effects

#### Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
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	-
4-nonylphenol, branched	LD50 Dermal	Rabbit	2.14 g/kg	-
	LD50 Oral	Rat	1300 mg/kg	-
Poly[oxy(methyl- 1,2-ethanediyl)], α- (2-aminomethylethyl)-ω- (2-aminomethylethoxy)-	LD50 Dermal	Rat	2980 mg/kg	-
· · · · · · · · · · · · · · · · · · ·	LD50 Oral	Rat	2885 mg/kg	-
1,3-Benzenedimethanamine, polymer with 2,2'-[ (1-methylethylidene)bis (4,1-phenyleneoxymethylene)] bis[oxirane]	LD50 Dermal	Rat - Male, Female	>2000 mg/kg	-
	LD50 Oral	Rat - Female	1000 mg/kg	-
cyclohex-1,2-ylenediamine	LD50 Oral	Rat	4556 mg/kg	-
3-aminomethyl- 3,5,5-trimethylcyclohexylamine	LC50 Inhalation Dusts and mists	Rat	>5.01 mg/l	4 hours
	LD50 Dermal	Rat	>2000 mg/kg	-
	LD50 Oral	Rat	1030 mg/kg	-
4,4'-methylenebis	LD50 Dermal	Rabbit	2.11 g/kg	-
(cyclohexylamine)				
	LD50 Oral	Rat	0.625 g/kg	-
Formaldehyde, polymer with benzenamine, hydrogenated	LD50 Oral	Rat	300 mg/kg	-

Irritation/Corrosion

Product/ingredient name	Result	Species	Score	Exposure	Observation
m-phenylenebis (methylamine)	Skin - Severe irritant	Rat	-	4 hours	4 hours
4-nonylphenol, branched	Skin - Erythema/Eschar	Rabbit	4	-	-

#### Conclusion/Summary Skin

: There are no data available on the mixture itself.

### Product name RAVEN 405 TROWEL BLUE - B

### **SECTION 11: Toxicological information**

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

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

 Sensitization
 Product/ingredient name
 Route of
 Species
 Result

•••••••••••••••••••••••••••••••••••••••	Route of exposure	Species	Result			
m-phenylenebis (methylamine)	skin	Mouse	Sensitizing			
3-aminomethýl- 3,5,5-trimethylcyclohexylamine	skin	Guinea pig	Sensitizing			
Conclusion/Summary						
Skin	: There are no data available on the mixture itself.					

Respiratory	: There are no data available on the mixture itself.
Mutagenicity	
<b>Conclusion/Summary</b>	: There are no data available on the mixture itself.
Carcinogenicity	
<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.
Teratogenicity	
<b>Conclusion/Summary</b>	: There are no data available on the mixture itself.
Specific target organ toxic	<u>ity (single exposure)</u>
Not available.	

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

Name		Route of exposure	Target organs
4,4'-methylenebis(cyclohexylamine)	Category 2	oral	-
Formaldehyde, polymer with benzenamine, hydrogenated	Category 2	oral	kidneys

Target organs

: Contains material which causes damage to the following organs: upper respiratory tract, skin, central nervous system (CNS).

Contains material which may cause damage to the following organs: kidneys, the reproductive system, liver, gastrointestinal tract, eye, lens or cornea, muscle tissue.

#### **Aspiration hazard**

Not available.

### Information on the likely routes of exposure

### Potential acute health effects

Eye contact		Causes serious eye damage.
Inhalation	1	Harmful if inhaled.
Skin contact	1	Causes severe burns. May be harmful in contact with skin. May cause an allergic skin reaction.
Ingestion	:	Harmful if swallowed. Corrosive to the digestive tract. Causes burns.
Over-exposure signs/sympto	om	<u>s</u>
Eye contact	:	Adverse symptoms may include the following: pain watering redness
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# **SECTION 11: Toxicological information**

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Inhalation	dverse symptoms may include the following: educed fetal weight ncrease in fetal deaths keletal malformations	
Skin contact	dverse symptoms may include the following: ain or irritation edness listering may occur educed fetal weight hcrease in fetal deaths keletal malformations	
Ingestion	dverse symptoms may include the following: tomach pains educed fetal weight ncrease in fetal deaths keletal malformations	
Delayed and immediate effe	d also chronic effects from short and long term exposure	
Conclusion/Summary	here are no data available on the mixture itself. This product either con- rmaldehyde or is capable of releasing formaldehyde above 0.5 ppm us ponditions. Formaldehyde is a known cancer hazard, a skin sensitizer a spiratory sensitizer. Can form nitrosamines in the presence of certain aterials and if heated. If splashed in the eyes, the liquid may cause in eversible damage. Ingestion may cause nausea, diarrhea and vomitin to account, where known, delayed and immediate effects and also ch components from short-term and long-term exposure by oral, inhalate ermal routes of exposure and eye contact. Exposure to amine vapor oported to cause transient corneal edema described as blue haze, hal- blurred vision for several hours. This condition is typically temporary ause permanent visual effects. When the proper eye protection speci is worn, exposure is significantly reduced and the condition has not b	under certain and a n organic rritation and ng. This takes pronic effects tion and has been o effect, foggy and does not ified in Section
Short term exposure		
Potential immediate effects	here are no data available on the mixture itself.	
Potential delayed effects Long term exposure	here are no data available on the mixture itself.	
Potential immediate effects	here are no data available on the mixture itself.	
Potential delayed effects	here are no data available on the mixture itself.	
Potential chronic health effe		
General	May cause damage to organs through prolonged or repeated exposure ensitized, a severe allergic reaction may occur when subsequently ex ow levels.	
Carcinogenicity	lo known significant effects or critical hazards.	
Mutagenicity	lo known significant effects or critical hazards.	
Reproductive toxicity	suspected of damaging fertility or the unborn child.	
Numerical measures of toxic		
Acute toxicity estimates		

Acute toxicity estimates

### Product name RAVEN 405 TROWEL BLUE - B

# **SECTION 11: Toxicological information**

Product/ingredient name	Oral (mg/ kg)	Dermal (mg/kg)	Inhalation (gases) (ppm)	Inhalation (vapors) (mg/l)	Inhalation (dusts and mists) (mg/l)
AVEN 405 TROWEL BLUE - B	1107.0	2499.2	8138.9	50.1	6.8
m-phenylenebis(methylamine)	930	2500	4500	N/A	N/A
4-nonylphenol, branched	1300	2140	N/A	N/A	N/A
Poly[oxy(methyl-1,2-ethanediyl)], α-	2885	2980	N/A	N/A	N/A
(2-aminomethylethyl)-ω-(2-aminomethylethoxy)-					
1,3-Benzenedimethanamine, polymer with 2,2'-[	1000	2500	N/A	N/A	N/A
(1-methylethylidene)bis					
(4,1-phenyleneoxymethylene)]bis[oxirane]					
cyclohex-1,2-ylenediamine	4556	N/A	N/A	11	1.5
3-aminomethyl-3,5,5-trimethylcyclohexylamine	1030	2500	N/A	N/A	N/A
4,4'-methylenebis(cyclohexylamine)	625	2110	N/A	N/A	N/A
Formaldehyde, polymer with benzenamine, hydrogenated	300	N/A	N/A	N/A	N/A

# **SECTION 12: Ecological information**

<u>Toxicity</u>				
Product/ingredient name	Result	Species	Exposure	
4-nonylphenol, branched	Acute EC50 0.044 mg/l	Crustaceans - Moina macrocopa	48 hours	
	Acute LC50 0.221 mg/l	Fish	96 hours	
Poly[oxy(methyl- 1,2-ethanediyl)], α- (2-aminomethylethyl)-ω-	EC50 15 mg/l	Algae	72 hours	
(2-aminomethylethoxy)- 1,3-Benzenedimethanamine, polymer with 2,2'-[ (1-methylethylidene)bis (4,1-phenyleneoxymethylene)] bis[oxirane]	EC50 1.83 mg/l	Algae	72 hours	
	EC50 3.54 mg/l	Daphnia	48 hours	
	LC50 8.72 mg/l	Fish	96 hours	
Formaldehyde, polymer with benzenamine, hydrogenated	Acute EC50 43.94 mg/l	Algae	72 hours	
	Acute EC50 15.4 mg/l	Daphnia	48 hours	
	Acute LC50 63 mg/l	Fish	96 hours	

### Persistence and degradability

Product/ingredient name	Test	Result	Dose	Inoculum
Formaldehyde, polymer with benzenamine, hydrogenated	-	0 % - Not readily - 28 days	-	-

# **SECTION 12: Ecological information**

Product/ingredient name	Aquatic half-life	Photolysis	Biodegradability
Product/ingredient name	Aquatic hall-life	FIIOLOIYSIS	ыоцеугацарних
Poly[oxy(methyl-	-	-	Not readily
1,2-ethanediyl)], α-			-
(2-aminomethylethyl)-ω-			
(2-aminomethylethoxy)-			
1,3-Benzenedimethanamine,	-	-	Not readily
polymer with 2,2'-[			
(1-methylethylidene)bis			
(4,1-phenyleneoxymethylene)]			
bis[oxirane]			
Formaldehyde, polymer with	-	-	Not readily
benzenamine, hydrogenated			,

#### **Bioaccumulative potential**

Product/ingredient name	LogPow	BCF	Potential
m-phenylenebis (methylamine)	0.18	2.69	Low
4-nonylphenol, branched	5.4	251.19	Low
1,3-Benzenedimethanamine, polymer with 2,2'-[	2.3	-	Low
(1-methylethylidene)bis			
(4,1-phenyleneoxymethylene)] bis[oxirane]			
3-aminomethyl- 3,5,5-trimethylcyclohexylamine	0.99	-	Low
4,4'-methylenebis (cyclohexylamine)	2.03	-	Low
Formaldehyde, polymer with benzenamine, hydrogenated	2.68	209 to 219	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 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. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.
Disposal should be in accord	dance with applicable regional, national and local laws and regulations.

Mexico Page: 12/14

### Product name RAVEN 405 TROWEL BLUE - B

# **SECTION 13: Disposal considerations**

Refer to Section 7: HANDLING AND STORAGE and Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION for additional handling information and protection of employees. Section 6. Accidental release measures

# **SECTION 14: Transport information**

	-		
	Mexico Classification	IMDG	ΙΑΤΑ
UN number	UN2735	UN2735	UN2735
UN proper shipping name	AMINAS LIQUIDAS, CORROSIVAS, N. E.P.	AMINES, LIQUID, CORROSIVE, N.O.S.	Amines, liquid, corrosive, n.o.s.
	(m-phenylenebis(methylamine), 4-nonylphenol, branched)	(m-phenylenebis(methylamine), 4-nonylphenol, branched)	(m-phenylenebis(methylamine), 4-nonylphenol, branched)
Transport hazard class(es)	8	8	8
Packing group	III	III	III
Environmental hazards	Yes. The environmentally hazardous substance mark is not required.	Yes.	Yes. The environmentally hazardous substance mark is not required.
Marine pollutant substances	Not applicable.	(4-nonylphenol, branched)	Not applicable.

#### Additional information

IMDG

Mexico : None identified.

- : The marine pollutant mark is not required when transported in sizes of  $\leq 5$  L or  $\leq 5$  kg.
- **IATA** : 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**

<u>Mexico</u>							
Classification							
Flammability	:	1	Health	:	3	Reactivity : 1	
International regu	lat	<u>ions</u>					
Montreal Protoc	<u>ol</u>						
Not listed.							
Stockholm Conv	<u>en</u>	<u>tion o</u>	<u>n Persist</u>	ent	Or	ganic Pollutants	
Not listed.							

Product name RAVEN 405 TROWEL BLUE - B

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

Rotterdam Convention on Prior Informed Consent (PIC)

Not listed.

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

Hazardous Material Information System (U.S.A.)

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Health : 3 * Flammability : 1 Physical hazards : 1
(*) - Chronic
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effects

Caution: HMIS® ratings are based on a 0-4 rating scale, with 0 representing minimal hazards or risks, and 4 representing significant hazards or risks. HMIS® ratings are to be used with a fully implemented HMIS® program. HMIS® is a registered trademark and service mark of the American Coatings Association, Inc.

The customer is responsible for determining the PPE code for this material. For more information on HMIS® Personal Protective Equipment (PPE) codes, consult the HMIS® Implementation Manual.

Date of previous issue	: 6/19/2024
Organization that prepared the SDS	: EHS
Key to abbreviations	: ATE = Acute Toxicity Estimate BCF = Bioconcentration Factor GHS = Globally Harmonized System of Classification and Labelling of Chemicals IATA = International Air Transport Association IBC = Internediate Bulk Container IMDG = International Maritime Dangerous Goods LogPow = logarithm of the octanol/water partition coefficient MARPOL = International Convention for the Prevention of Pollution From Ships, 1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution) N/A = Not available SGG = Segregation Group UN = United Nations

#### Indicates information that has changed from previously issued version.

#### Notice to reader

The information, which is based on the current knowledge of the chemical substance or mixture and applies to appropriate safety precautions for the product, is deemed correct but is not exhaustive and will be used only as a guide.

#### **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.