SAFETY DATA SHEET



Date of issue

11 July 2024

Version 1

Section 1. Product and company identification

Product name : RAVEN 405 TROWEL BLUE - B

Product code : 00465066
Other means of identification : Not available.

Product type : 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 : PPG Industries Colombia Ltda

Calle 51 # 40-13 Municipio de Itagüí Antioquia, Colombia (57) (4) 3787400 (Porteria)

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 substance or mixture

: ACUTE TOXICITY (oral) - Category 4 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 AQUATIC HAZARD (ACUTE) - Category 1

English (US) Colombia 1/14

AQUATIC HAZARD (LONG-TERM) - Category 1

Code Date of issue 11 July 2024 00465066 Version

Product name RAVEN 405 TROWEL BLUE - B

Section 2. Hazards identification

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.

Percentage of the mixture consisting of ingredient(s) of unknown acute oral toxicity:

Percentage of the mixture consisting of ingredient(s) of unknown acute dermal toxicity: 19.3%

Percentage of the mixture consisting of ingredient(s) of unknown acute inhalation toxicity: 60.2%

Percentage of the mixture consisting of ingredient(s) of unknown hazards to the aguatic environment: 20%

GHS label elements

Hazard pictograms









Signal word

: Danger

Hazard statements

: Harmful if swallowed or if inhaled. May be harmful in contact with skin.

Causes severe skin burns and eye damage.

May cause an allergic skin reaction.

Suspected of damaging fertility or the unborn child. Very toxic to aquatic life with long lasting effects.

Precautionary statements

Prevention

: Obtain special instructions before use. Wear protective gloves, protective clothing and eye or face protection. Avoid release to the environment. Avoid breathing vapor. Do not eat, drink or smoke when using this product. Wash thoroughly after handling.

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

Disposal

: Not applicable.

: Dispose of contents and container in accordance with all local, regional, national and international regulations.

result in classification

Other hazards which do not : 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).

English (US) Colombia 2/14 Code 11 July 2024 00465066 Date of issue Version

Product name RAVEN 405 TROWEL BLUE - B

Section 3. Composition/information on ingredients

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

CAS number/other identifiers

CAS number : Not applicable.

Ingredient name	%	CAS number
m-phenylenebis(methylamine)	20 - <30	1477-55-0
4-nonylphenol, branched	15 - <20	84852-15-3
Poly[oxy(methyl-1,2-ethanediyl)], α-(2-aminomethylethyl)-ω-	12.5 - <15	9046-10-0 (n = 2-6)
(2-aminomethylethoxy)-		, , ,
1,3-Benzenedimethanamine, polymer with 2,2'-[(1-methylethylidene)bis	10 - <12.5	110839-13-9
(4,1-phenyleneoxymethylene)]bis[oxirane]		
cyclohex-1,2-ylenediamine	7 - <10	694-83-7
3-aminomethyl-3,5,5-trimethylcyclohexylamine	7 - <10	2855-13-2
4,4'-methylenebis(cyclohexylamine)	5 - <7	1761-71-3
Formaldehyde, polymer with benzenamine, hydrogenated	5 - <7	135108-88-2
Quaternary ammonium compounds, benzylbis(hydrogenated tallow alkyl)	1 - <2	61789-73-9
methyl, chlorides		
Quaternary ammonium compounds, bis(hydrogenated tallow alkyl)	0.2 - < 0.5	61789-80-8
dimethyl, chlorides		

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 aid measures

Ingestion

Eye contact : Check for and remove any contact lenses. Immediately flush eyes with running water for at least 15 minutes, keeping eyelids open. Seek immediate medical

attention.

Inhalation : Remove to fresh air. Keep person warm and at rest. If not breathing, if breathing is

irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by

trained personnel.

: Remove contaminated clothing and shoes. Wash skin thoroughly with soap and **Skin contact**

water or use recognized skin cleanser. Do NOT use solvents or thinners. : 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 : 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.

English (US) Colombia 3/14 Code 00465066 Date of issue 11 July 2024 Version

Product name RAVEN 405 TROWEL BLUE - B

Section 4. First aid measures

Protection of first-aiders : No action shall be taken involving any personal risk or without suitable training. If it

is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Wash contaminated clothing

thoroughly with water before removing it, or wear gloves.

Potential acute health effects

Eye contact : Causes serious eye damage.

Inhalation : 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.

See toxicological information (Section 11)

Section 5. Fire-fighting measures

Extinguishing media

Suitable extinguishing

media

Unsuitable extinguishing

media

: Use an extinguishing agent suitable for the surrounding fire.

: None known.

Specific hazards arising from the chemical

: In a fire or if heated, a pressure increase will occur and the container may burst. This material is very 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 metal oxide/oxides Formaldehyde.

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.

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

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".

English (US) Colombia 4/14 Code Date of issue 11 July 2024 00465066 Version

Product name RAVEN 405 TROWEL BLUE - B

Section 6. Accidental release measures

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

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.

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

: 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 eves 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. 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.

including any incompatibilities

Conditions for safe storage, : 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. See Section 10 for incompatible materials before handling or use.

Section 8. Exposure controls/personal protection

Control parameters

Occupational exposure limits

Ingredient name	Exposure limits
m-phenylenebis(methylamine)	ACGIH TLV (United States, 7/2023). Absorbed through skin. C: 0.018 ppm

English (US) Colombia 5/14

Product name RAVEN 405 TROWEL BLUE - B

Section 8. Exposure controls/personal protection

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.

Individual protection measures

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.

Eye protection
Skin protection
Hand protection

: Chemical splash goggles and face shield.

: 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.

Gloves

: butyl rubber

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.

Other skin protection

: Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

Respiratory protection

: Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator. If workers are exposed to concentrations above the exposure limit, they must use appropriate, certified respirators. Use a properly fitted, air-purifying or air-fed respirator complying with an approved standard if a risk assessment indicates this is necessary.

Section 9. Physical and chemical properties

Appearance

Physical state : Liquid.
Color : Blue.

Odor : Ammoniacal.

pH : Not applicable.

Melting point : Not available.

Boiling point : >37.78°C (>100°F)

English (US) Colombia 6/14

Code 00465066 Date of issue 11 July 2024 Version 1

Product name RAVEN 405 TROWEL BLUE - B

Section 9. Physical and chemical properties

Flash point : Closed cup: 100°C (212°F)

Evaporation rate : Not available.

Flammability (solid, gas) : Not available.

Lower and upper explosive : Not available.

(flammable) limits

Vapor pressure: Not available.Vapor density: Not available.

Relative density : 1.02

Solubility(ies) : Media Result

cold water Not soluble

Partition coefficient: n-

octanol/water

Auto-ignition temperature : Not available.

Auto-ignition temperature : Not available.

Decomposition temperature : Not available.

Viscosity : Kinematic (40°C (104°F)): >21 mm²/s (>21 cSt)

: Not applicable.

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.

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-	LD50 Dermal	Rat	2980 mg/kg	-

English (US) Colombia 7/14

Product name RAVEN 405 TROWEL BLUE - B

Section 11. Toxicological information

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(2-aminomethylethyl)-ω- (2-aminomethylethoxy)-				
(2 difficulty curexy)	LD50 Oral	Rat	2885 mg/kg	-
1,3-Benzenedimethanamine,	LD50 Dermal	Rat - Male,	>2000 mg/kg	-
polymer with 2,2'-[Female		
(1-methylethylidene)bis				
(4,1-phenyleneoxymethylene)] bis[oxirane]				
	LD50 Oral	Rat - Female	1000 mg/kg	-
cyclohex-1,2-ylenediamine	LD50 Oral	Rat	4556 mg/kg	-
3-aminomethyl-	LC50 Inhalation Dusts and mists	Rat	>5.01 mg/l	4 hours
3,5,5-trimethylcyclohexylamine	L D 50 D	_ ,		
	LD50 Dermal	Rat	>2000 mg/kg	-
4.41	LD50 Oral	Rat	1030 mg/kg	-
4,4'-methylenebis (cyclohexylamine)	LD50 Dermal	Rabbit	2.11 g/kg	-
	LD50 Oral	Rat	0.625 g/kg	-
Formaldehyde, polymer with	LD50 Oral	Rat	300 mg/kg	-
benzenamine, hydrogenated				
Quaternary ammonium	LD50 Oral	Rat	>9850 mg/kg	-
compounds, bis (hydrogenated tallow alkyl)				
dimethyl, chlorides				
aminouty, conclude				

Conclusion/Summary

: There are no data available on the mixture itself.

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.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 exposure	Species	Result
m-phenylenebis (methylamine)	skin	Mouse	Sensitizing
3-aminomethyl- 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
Not available.

Conclusion/Summary

<u>Carcinogenicity</u>

Not available.

: There are no data available on the mixture itself.

English (US) Colombia 8/14

Code 00465066 Date of issue 11 July 2024 Version 1

Product name RAVEN 405 TROWEL BLUE - B

Section 11. Toxicological information

Conclusion/Summary

: There are no data available on the mixture itself.

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.

Specific target organ toxicity (single exposure)

Not available.

Specific target organ toxicity (repeated exposure)

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

: Not available.

Potential acute health effects

Eye contact : Causes serious eye damage.

Inhalation : 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.

Symptoms related to the physical, chemical and toxicological characteristics

Eye contact: Adverse symptoms may include the following:

pain watering redness

Inhalation : Adverse symptoms may include the following:

reduced fetal weight increase in fetal deaths skeletal malformations

English (US) Colombia 9/14

Product name RAVEN 405 TROWEL BLUE - B

Section 11. Toxicological information

Skin contact: Adverse symptoms may include the following:

pain or irritation

redness

blistering may occur reduced fetal weight increase in fetal deaths skeletal malformations

Ingestion: Adverse symptoms may include the following:

stomach pains reduced fetal weight increase in fetal deaths skeletal malformations

Delayed and immediate effects and also chronic effects from short and long term exposure

Conclusion/Summary: There are no data available on the mixture itself. This product either contains

formaldehyde or is capable of releasing formaldehyde above 0.5 ppm under certain conditions. Formaldehyde is a known cancer hazard, a skin sensitizer and a respiratory sensitizer. Can form nitrosamines in the presence of certain organic materials and if heated. If splashed in the eyes, the liquid may cause irritation and reversible damage. Ingestion may cause nausea, diarrhea and vomiting. This takes into account, where known, delayed and immediate effects and also chronic effects of components from short-term and long-term exposure by oral, inhalation and dermal routes of exposure and eye contact. Exposure to amine vapor has been reported to cause transient corneal edema described as blue haze, halo effect, foggy or blurred vision for several hours. This condition is typically temporary and does not cause permanent visual effects. When the proper eye protection specified in Section 8 is worn, exposure is significantly reduced and the condition has not

been observed.

Short term exposure

Potential immediate

effects

Potential delayed effects

Long term exposure

Potential immediate

effects

: 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.

Potential delayed effects: There are no data available on the mixture itself.

Potential chronic health effects

Not available.

General : Once sensitized, a severe allergic reaction may occur when subsequently exposed

to very low levels.

Carcinogenicity : No known significant effects or critical hazards.

Mutagenicity : No known significant effects or critical hazards.

Reproductive toxicity : Suspected of damaging fertility or the unborn child.

Numerical measures of toxicity

Acute toxicity estimates

English (US) Colombia 10/14

Code 00465066 Date of issue 11 July 2024 Version 1
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)
RAVEN 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'-[(1-methylethylidene)bis (4,1-phenyleneoxymethylene)]bis[oxirane]	1000	2500	N/A	N/A	N/A
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

Other information : Not available.

Section 12. Ecological information

Ecotoxicity

Result	Species	Exposure
Acute EC50 0.044 mg/l	Crustaceans - Moina macrocopa	48 hours
Acute LC50 0.221 mg/l	Fish	96 hours
EC50 15 mg/l	Algae	72 hours
EC50 1.83 mg/l	Algae	72 hours
TC50 2 54 mg/l	Danhnia	48 hours
		96 hours
	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	72 hours
Acute E030 43.94 Hig/i	Alyac	12 Hours
Acute EC50 15 / mg/l	Danhnia	48 hours
	l •	96 hours
	Acute EC50 0.044 mg/l Acute LC50 0.221 mg/l	Acute EC50 0.044 mg/l Acute LC50 0.221 mg/l EC50 15 mg/l EC50 1.83 mg/l EC50 3.54 mg/l Acute EC50 43.94 mg/l Acute EC50 15.4 mg/l Daphnia

Persistence/degradability

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

English (US) Colombia 11/14

 Code
 00465066
 Date of issue
 11 July 2024
 Version
 1

 Product name
 RAVEN 405 TROWEL BLUE - B

Section 12. Ecological information

Product/ingredient name	Aquatic half-life	Photolysis	Biodegradability
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
	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
Quaternary ammonium compounds, bis	3.8	-	Low
(hydrogenated tallow alkyl) dimethyl, chlorides			

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

English (US) Colombia 12/14

Product name RAVEN 405 TROWEL BLUE - B

Section 13. Disposal considerations

containers or liners may retain some product residues. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

Section 14. Transport information

	UN	Brazil (ANTT)	IMDG	IATA
UN number	UN2735	UN2735	UN2735	UN2735
UN proper shipping name	AMINES, LIQUID, CORROSIVE, N.O.S.	AMINAS, CORROSIVAS, LÍQUIDAS, N.E.	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)	(m-phenylenebis (methylamine), 4-nonylphenol, branched)
Transport hazard class(es)	8	8	8	8
Packing group	II	III	III	III
Environmental hazards	Yes. The environmentally hazardous substance mark is not required.	Yes. The environmentally hazardous substance mark is not required.	Yes.	Yes. The environmentally hazardous substance mark is not required.
Marine pollutant substances	Not applicable.	Not applicable.	(4-nonylphenol, branched)	Not applicable.

Additional information

UN : None identified.Brazil : None identified.

Risk number : 80

IMDG: The marine pollutant mark is not required when transported in sizes of ≤5 L or ≤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

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

English (US) Colombia 13/14

Product name RAVEN 405 TROWEL BLUE - B

Section 16. Other information

History

Date of previous issue : No previous validation

Version :

EHS

Key to abbreviations

: ADN = European Provisions concerning the International Carriage of Dangerous

Goods by Inland Waterway

ADR = The European Agreement concerning the International Carriage of

Dangerous Goods by Road ATE = Acute Toxicity Estimate BCF = Bioconcentration Factor

GHS = Globally Harmonized System of Classification and Labelling of Chemicals

IATA = International Air Transport Association 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)

RID = The Regulations concerning the International Carriage of Dangerous Goods

by Rail

UN = United Nations

References : ABNT NBR 14725-4: 2014

ANTT - National Land Transportation Agency

Indicates information that has changed from previously issued version.

Disclaimer

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English (US) Colombia 14/14