SAFETY DATA SHEET



Date of issue 29 June 2021

Version 11.02

Section 1. Product and company identification

Product name
Product code
Other means of identification
Product type

: SIGMARINE 48 RAL 3001

- : 00317681
- 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	: 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	: FLAMMABLE LIQUIDS - Category 3 SKIN IRRITATION - Category 3 EYE IRRITATION - Category 2A CARCINOGENICITY - Category 2 TOXIC TO REPRODUCTION - Category 2 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Narcotic effects) - Category 3
	CARCINOGENICITY - Category 2
	TOXIC TO REPRODUCTION - Category 2
	SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Narcotic effects) -
	Category 3
	SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) - Category 1
	AQUATIC HAZARD (ACUTE) - Category 2
	AQUATIC HAZARD (LONG-TERM) - Category 2

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Target organs	 Contains material which causes damage to the following organs: brain, central nervous system (CNS). Contains material which may cause damage to the following organs: blood, kidneys lungs, the nervous system, liver, cardiovascular system, upper respiratory tract, ski eye, lens or cornea.
	Percentage of the mixture consisting of ingredient(s) of unknown hazards to the aquatic environment: 50.4%
GHS label elements	
Hazard pictograms	
Signal word	: Danger
Hazard statements	 Flammable liquid and vapor. Causes mild skin irritation. Causes serious eye irritation. May cause drowsiness or dizziness. Suspected of causing cancer. Suspected of damaging fertility or the unborn child. Causes damage to organs through prolonged or repeated exposure. (central nervous system (CNS)) 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. 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. Do not breathe vapor. Do no eat, drink or smoke when using this product.
Response	: Collect spillage. IF exposed or concerned: Get medical advice or attention. IF INHALED: Call a POISON CENTER or doctor if you feel unwell. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice or attention.
Storage	: Store in a well-ventilated place. Keep container tightly closed. Keep cool.
Disposal	 Dispose of contents and container in accordance with all local, regional, national and international regulations.
Other hazards which do no result in classification	t : Frolonged or repeated contact may dry skin and cause irritation.

Section 3. Composition/information on ingredients

Substance/mixture Other means of identification

: Mixture

: Not available.

CAS number/other identifiers

CAS number

: Not applicable.

Ingredient name	%	CAS number
Naphtha (petroleum), hydrodesulfurized heavy	20 - <30	64742-82-1
titanium dioxide	15 - <20	13463-67-7
Naphtha (petroleum), hydrotreated heavy	10 - <12.5	64742-48-9
nonane	2 - <3	111-84-2
Talc, not containing asbestiform fibers	2 - <3	14807-96-6
1,2,4-trimethylbenzene	2 - <3	95-63-6
Hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, < 2% aromatics	1 - <2	64742-48-9 (EC
		918-481-9)
xylene	1 - <2	1330-20-7
2-ethylhexanoic acid, zirconium salt	1 - <2	22464-99-9
ethylbenzene	0.2 - <0.5	100-41-4
calcium bis(2-ethylhexanoate)	0.2 - <0.5	136-51-6
2-butanone oxime	0.1 - <0.2	96-29-7
cumene	0.1 - <0.2	98-82-8

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 fir	<u>st aid measures</u>
Eye contact	 Remove contact lenses, irrigate copiously with clean, fresh water, holding the eyelids apart for at least 10 minutes and seek immediate medical advice.
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.
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 med	lical attention and special treatment needed, if necessary
Notes to physician Specific treatments	 Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled. No specific treatment.
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.
Detential coute health offect	

Potential acute health effects

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Section 4. First aid measures

Eye contact	: Causes serious eye irritation.
Inhalation	 Can cause central nervous system (CNS) depression. May cause drowsiness or dizziness.
Skin contact	: Causes mild skin irritation. Defatting to the skin.
Ingestion	: Can cause central nervous system (CNS) depression.

See toxicological information (Section 11)

Section 5. Fire-fighting measures

Extinguishing media	
Suitable extinguishing media	: Use dry chemical, CO ₂ , 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 metal oxide/oxides
Special protective actions for fire-fighters	Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training. Move containers from fire area if this can be done without risk. Use water spray to keep fire-exposed containers cool.
Special protective equipment for fire-fighters	 Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

Section 6. Accidental release measures

Personal precautions, protec	ive 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. Avoid breathing 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

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). 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. 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.
	Materials such as cleaning rags, paper wipes and protective clothing, which are contaminated with the product may spontaneously self-ignite some hours later. To avoid the risks of fires, all contaminated materials should be stored in purpose-built containers or in metal containers with tight-fitting, self-closing lids. Contaminated materials should be removed from the workplace at the end of each working day and be stored outside.
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

Ingredient name		Exposure limits			
titanium dioxide		ACGIH TLV (United States, 3/2020).			
nonane		TWA: 10 mg/m ³ 8 hours. ACGIH TLV (United States, 3/2020). TWA: 200 ppm 8 hours.			
Talc, not containing asbestif	orm fibers	TWA: 1050 mg/m ³ 8 hours. ACGIH TLV (United States, 3/2020).			
1,2,4-trimethylbenzene		TWA: 2 mg/m ³ 8 hours. Form: Respirable ACGIH TLV (United States, 3/2020). TWA: 123 mg/m ³ 8 hours. TWA: 25 ppm 8 hours.			
xylene		ACGIH TLV (United States, 3/2020). STEL: 651 mg/m ³ 15 minutes. STEL: 150 ppm 15 minutes. TWA: 434 mg/m ³ 8 hours. TWA: 100 ppm 8 hours.			
2-ethylhexanoic acid, zirconi	um salt	ACGIH TLV (United States, 3/2020). STEL: 10 mg/m ³ , (as Zr) 15 minutes. TWA: 5 mg/m ³ , (as Zr) 8 hours.			
Recommended monitoring procedures	atmosphere or biological monitorir of the ventilation or other control n protective equipment. Reference	s with exposure limits, personal, workplace ng may be required to determine the effectiveness neasures and/or the necessity to use respiratory should be made to appropriate monitoring guidance documents for methods for the ances will also be required.			
Appropriate engineering controls	ventilation or other engineering co contaminants below any recomme	 Use process enclosures, local exhaust introls to keep worker exposure to airborne ended or statutory limits. The engineering controls ust concentrations below any lower explosive ation equipment. 			
Environmental exposure controls	: Emissions from ventilation or work they comply with the requirements cases, fume scrubbers, filters or e	c process equipment should be checked to ensure of environmental protection legislation. In some engineering modifications to the process duce emissions to acceptable levels.			
ndividual protection measu	res				
Hygiene measures	before eating, smoking and using Appropriate techniques should be	horoughly after handling chemical products, the lavatory and at the end of the working period. used to remove potentially contaminated clothing re reusing. Ensure that eyewash stations and orkstation location.			
Eye protection Skin protection	: Chemical splash goggles.				

Section 8. Exposure controls/personal protection

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.
Gloves	: For prolonged or repeated handling, use the following type of gloves:
	Recommended: polyvinyl alcohol (PVA), Viton® May be used: nitrile 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. When there is a risk of ignition from static electricity, wear anti-static protective clothing. For the greatest protection from static discharges, clothing should include anti-static overalls, boots and gloves.
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

<u>Appearance</u>	
Physical state	: Liquid.
Color	: Various
Odor	: Aromatic.
рН	: Not applicable.
Melting point	: Not available.
Boiling point	: >37.78°C (>100°F)
Flash point	: Closed cup: 38.5°C (101.3°F)
Evaporation rate	: Not available.
Flammability (solid, gas)	: Not available.
Lower and upper explosive (flammable) limits	: Not available.
Vapor pressure	: Not available.
Vapor density	: Not available.
Relative density	: 1.09
Solubility	: Insoluble in the following materials: cold water.
Partition coefficient: n- octanol/water	: Not applicable.
Auto-ignition temperature	: 210°C (410°F)

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Section 9. Physical and chemical properties

Decomposition temperature	: Not available.
Viscosity	: Kinematic (40°C (104°F)): >21 mm²/s (>21 cSt)
Viscosity	: 60 - 100 s (ISO 6mm)

Section 10. Stability and reactivity

Reactivity	No specific test data related to reactivity available for this product or its ingred	lients.
Chemical stability	The product is stable.	
Possibility of hazardous reactions	Under normal conditions of storage and use, hazardous reactions will not occ	ur.
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 reaction oxidizing agents, strong alkalis, strong acids.	IS:
Hazardous decomposition products	Fvolves hydrogen on contact with water. Depending on conditions, decompo products may include the following materials: carbon oxides metal oxide/oxid	

Section 11. Toxicological information

Information on toxicological effects

Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
Maphtha (petroleum), hydrodesulfurized heavy	LD50 Oral	Rat	>5000 mg/kg	-
titanium dioxide	LC50 Inhalation Dusts and mists	Rat	>6.82 mg/l	4 hours
	LD50 Dermal	Rabbit	>5000 mg/kg	-
	LD50 Oral	Rat	>5000 mg/kg	-
Naphtha (petroleum), hydrotreated heavy	LD50 Dermal	Rabbit	>5000 mg/kg	-
	LD50 Oral	Rat	>6 g/kg	-
nonane	LC50 Inhalation Gas.	Rat	3200 ppm	4 hours
	LC50 Inhalation Vapor	Rat	16790 mg/m ³	4 hours
1,2,4-trimethylbenzene	LC50 Inhalation Vapor	Rat	18000 mg/m ³	4 hours
-	LD50 Oral	Rat	5 g/kg	-
Hydrocarbons, C10-C13, n-	LD50 Dermal	Rabbit	>5000 mg/kg	-
alkanes, isoalkanes, cyclics, < 2% aromatics				
	LD50 Oral	Rat	>6 g/kg	-
xylene	LD50 Dermal	Rabbit	1.7 g/kg	-
	LD50 Oral	Rat	4.3 g/kg	-
2-ethylhexanoic acid, zirconium salt	LD50 Dermal	Rabbit	>5 g/kg	-
	LD50 Oral	Rat	>5 g/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	-
2-butanone oxime	LD50 Oral	Rat	930 mg/kg	-
		English (US)) Colombia	8/1

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Section 11. Toxicological information

_	cumene	LC50 Inhalation Vapor	Rat	39000 mg/m ³	4 hours	_
		LD50 Dermal	Rabbit	12.3 g/kg	-	
		LD50 Oral	Rat	1400 mg/kg	-	

	LD50 Oral			Rat		1400 m		-	
Conclusion/Summary Irritation/Corrosion	: There ar	e no data a	available on	the mixt	ture itsel	f.		·	
Product/ingredient name	Result		Spec	ies	Score	e E	Exposure		Observation
xylene	Skin - Mod	erate irritar	nt Rabb	oit	-		4 hours 5(าg	00	-
Conclusion/Summary	•					·			
Skin	: There ar	e no data a	available on	the mixt	ture itsel	f.			
Eyes : There are no data available on the mixture itself.									
Respiratory : There are no data available on the mixture itself.									
Sensitization									
Not available.									
Conclusion/Summary									
Skin	: There ar	e no data a	available on	the mixt	ture itsel	f.			
Respiratory	: There ar	e no data a	available on	the mixt	ture itsel	f.			
Mutagenicity									
Not available.									
Conclusion/Summary	• There ar	e no data a	available on	the mixt	ture itsel	f.			
Carcinogenicity									
Not available.									
						_			
Conclusion/Summary	: There ar	e no data a	available on	the mixt	ture itsel	f.			
<u>Classification</u>									
Product/ingredient name	OSHA	IARC	NTP						
titanium dioxide	-	2B	-						
xylene	-	3	-						
ethylbenzene cumene	-	2B 2B	- Reasonab	ly anticir	nated to l	ha a hur	nan carcir	0006	n
		20	1 Casonad					loge	/1.
Carcinogen Classification									
IARC: 1, 2A, 2B, 3, 4 NTP: Known to be		nogen; Reas	onably antici	bated to b	e a humar	n carcino	qen		
OSHA: +		J ,					-		
Not listed/not regul	ated: -								

Reproductive toxicity

Not available.

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

Teratogenicity

Not available.

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

Section 11. Toxicological information

Name	Category	Route of exposure	Target organs
Maphtha (petroleum), hydrodesulfurized heavy	Category 3	-	Narcotic effects
Naphtha (petroleum), hydrotreated heavy	Category 3	-	Respiratory tract irritation
nonane	Category 3	-	Narcotic effects
Talc, not containing asbestiform fibers	Category 3	-	Respiratory tract irritation
1,2,4-trimethylbenzene	Category 3	-	Respiratory tract irritation
xylene	Category 3	-	Respiratory tract irritation
cumene	Category 3	-	Respiratory tract irritation

Specific target organ toxicity (repeated exposure)

Name	Category	Route of exposure	Target organs
Naphtha (petroleum), hydrodesulfurized heavy	Category 1	-	central nervous system (CNS)
ethylbenzene cumene	Category 2 Category 2	-	hearing organs -

Target organs

: Contains material which causes damage to the following organs: brain, central nervous system (CNS).

Contains material which may cause damage to the following organs: blood, kidneys, lungs, the nervous system, liver, cardiovascular system, upper respiratory tract, skin, eye, lens or cornea.

Aspiration hazard

Name	Result
Naphtha (petroleum), hydrodesulfurized heavy Naphtha (petroleum), hydrotreated heavy nonane Hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, < 2% aromatics xylene ethylbenzene cumene	ASPIRATION HAZARD - Category 1 ASPIRATION HAZARD - Category 1

Information on the likely routes of exposure	:	Not available.
Potential acute health effects		
Eye contact	1	Causes serious eye irritation.
Inhalation	:	Can cause central nervous system (CNS) depression. May cause drowsiness or dizziness.
Skin contact	1	Causes mild skin irritation. Defatting to the skin.
Ingestion	:	Can cause central nervous system (CNS) depression.

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Section 11. Toxicological information

Symptoms related to t	the physical, chemical and toxicological characteristics
Eye contact	: Adverse symptoms may include the following: pain or irritation watering redness
Inhalation	: Adverse symptoms may include the following: nausea or vomiting headache drowsiness/fatigue dizziness/vertigo unconsciousness reduced fetal weight increase in fetal deaths skeletal malformations
Skin contact	: Adverse symptoms may include the following: irritation redness dryness cracking reduced fetal weight increase in fetal deaths skeletal malformations
Ingestion	: Adverse symptoms may include the following: 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. For many PPG products, TiO2 is utilized as a raw material in a liquid coating formulation. In this case, the TiO2 particles are bound in a matrix with no meaningful potential for human exposure to unbound particles of TiO2 when the product is applied with a brush or roller. Sanding the coating surface or mist from spray applications may be harmful depending on the duration and level of exposure and require the use of appropriate personal protective equipment and/or engineering controls (see Section 8). Exposure to component solvent vapor concentrations in excess of the stated occupational exposure limit may result in adverse health effects such as mucous membrane and respiratory system irritation and adverse effects on the kidneys, liver and central nervous system. Symptoms and signs include headache, dizziness, fatigue, muscular weakness, drowsiness and, in extreme cases, loss of consciousness. Solvents may cause some of the above effects by absorption through the skin. There is some evidence that repeated exposure to organic solvent vapors in combination with constant loud noise can cause greater hearing loss than expected from exposure to noise alone. 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.
Short term exposure Potential immediate	: There are no data available on the mixture itself.
effects	

Section 11. Toxicological information

	-
Potential delayed effects	: There are no data available on the mixture itself.
<u>Long term exposure</u>	
Potential immediate effects	: There are no data available on the mixture itself.
Potential delayed effects	: There are no data available on the mixture itself.
Potential chronic health eff	ects
Not available.	
General	: Causes damage to organs through prolonged or repeated exposure. Prolonged or repeated contact can defat the skin and lead to irritation, cracking and/or dermatitis.
Carcinogenicity	 Suspected of causing cancer. Risk of cancer depends on duration and level of exposure.

Mutagenicity	: No known significant effects or critical hazards.
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Reproductive toxicity : Suspected of damaging fertility or the unbo
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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)
GMARINE 48 RAL 3001	85066.2	49900	31174.9	70.2	12.6
nonane	N/A	N/A	3200	16.79	N/A
1,2,4-trimethylbenzene	5000	N/A	N/A	18	1.5
xylene	4300	1700	N/A	11	1.5
ethylbenzene	3500	17800	N/A	17.8	1.5
2-butanone oxime	930	1100	N/A	N/A	N/A
cumene	1400	12300	N/A	39	N/A

Other information

: Not available.

Section 12. Ecological information

Ecotoxicity

Product/ingredient name	Result	Species	Exposure
Manium dioxide 2-ethylhexanoic acid, zirconium salt	Acute LC50 >100 mg/l Fresh water Acute LC50 >100 mg/l	Daphnia - Daphnia magna Fish	48 hours 96 hours
ethylbenzene	Acute EC50 1.8 mg/l Fresh water Acute LC50 150 to 200 mg/l Fresh water Chronic NOEC 1 mg/l Fresh water	Daphnia Fish Daphnia - Ceriodaphnia dubia	48 hours 96 hours -

Persistence/degradability

Product/ingredient name	Test	Result	Dose	Inoculum
ethylbenzene	-	79 % - Readily - 10 days	-	-

English (US)	Colombia	12/15

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Section 12. Ecological information

Product/ingredient name	Aquatic half-life	Photolysis	Biodegradability
xylene ethylbenzene	-	-	Readily Readily

Bioaccumulative potential

Product/ingredient name	LogPow	BCF	Potential
nonane	5.65	-	high
1,2,4-trimethylbenzene	3.63	120.23	low
xylene	3.12	7.4 to 18.5	low
ethylbenzene	3.6	79.43	low
2-butanone oxime	0.63	5.01	low
cumene	3.55	35.48	low

Mobility in soil

Soil/water	partition
coefficient	(K _{oc})

: Not available.

Other adverse effects

: No known significant effects or critical hazards.

Section 13. Disposal considerations

Dis	posa	l metho	ods
210	poou		

: 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 nonrecyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. 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	UN1263	UN1263	UN1263	UN1263
UN proper shipping name	PAINT	PAINT	PAINT	PAINT
Transport hazard class(es)	3	3	3	3
Packing group	III		III	
			English (US) Colombia	13/1

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Section 14. Transport information

	-			
Environmental	Yes. The	Yes. The	Yes.	Yes. The
hazards	environmentally	environmentally		environmentally
	hazardous substance mark is not required.	hazardous substance mark is not required.		hazardous substance mark is not required.
Marine pollutant substances	Not applicable.	Not applicable.	(Naphtha (petroleum), hydrodesulfurized heavy, nonane)	Not applicable.

Additional information

UN	: None identified.
Brazil	: None identified.
Risk number	: 30
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).

Section 16. Other information

<u>History</u>	
Date of previous issue	: 6/7/2020
Version	: 11.02
	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

Section 16. Other information

References

: ABNT NBR 14725-4: 2014 ANTT - National Land Transportation Agency

Indicates information that has changed from previously issued version.

Disclaimer

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