SAFETY DATA SHEET



Date of issue 23 November 2022

Version 1.04

Section 1. Product and company identification

Product name
Product code
Other means of identification
Product type

- : SIGMARINE 48 BLACK / SIGMA 8000
- : 000001161540
- : 00224095; 00267904
- : 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 Industrial do Brasil – Tintas e Vernizes Ltda Via Anhanguera KM 106, Bairro Sao Judas Tadeu Sumare / SP, Brasil 55 19 2103-6000 (Recepção e Portaria)
Email address:	: HazComLatam@ppg.com
Emergency telephone number	: 0800 707 1767 / 0800 707 7022 – Empresa Suatrans Cotec 0800 14 8110 – CEATOX - Centro de Assistência Toxicológica

Section 2. Hazards identification

Classification of the substance or mixture	 FLAMMABLE LIQUIDS - Category 3 ACUTE TOXICITY (inhalation) - Category 4 SKIN IRRITATION - Category 3 CARCINOGENICITY - Category 2 TOXIC TO REPRODUCTION - Category 2 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Narcotic effects) - Category 3
Target organs	 SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) - Category 1 AQUATIC HAZARD (ACUTE) - Category 2 AQUATIC HAZARD (LONG-TERM) - Category 2 Contains material which causes damage to the following organs: brain. Contains material which may cause damage to the following organs: blood, kidneys, lungs, the nervous system, liver, cardiovascular system, upper respiratory tract, skin, central nervous system (CNS), eye, lens or cornea.

English (US)	Brazil	

Code 000001161540	Date of issue	23 November 2022	Version	1.04		
Product name SIGMARINE 48 BLACK / SIGMA 8000						
Section 2. Hazards	Section 2. Hazards identification					
	Percentage of the mixture consistint toxicity: 73.1%					
	Percentage of the mixture consisting aquatic environment: 39.6%	ng of ingredient(s) of unk	nown hazards	to the		
GHS label elements						
Hazard pictograms						
Signal word	: Danger	·				
Hazard statements	: Flammable liquid and vapor. Causes mild skin irritation. Harmful if inhaled. May cause drowsiness or dizzines: Suspected of causing cancer. Suspected of damaging fertility or Causes damage to organs through nervous system (CNS)) Toxic to aquatic life with long lastin	the unborn child. n prolonged or repeated e	exposure. (cent	tral		
Precautionary statements						
Prevention	: Obtain special instructions before and eye or face protection. Keep a flames and other ignition sources. ventilating or lighting equipment. Ustatic discharges. Avoid release to eat, drink or smoke when using thi	away from heat, hot surfa No smoking. Use explos Jse non-sparking tools. T o the environment. Do no	ces, sparks, o sion-proof elect Fake action to	pen trical, prevent		
Response	: Collect spillage. IF exposed or cor INHALED: Call a POISON CENTE			n. IF		
Storage	: Store in a well-ventilated place. Ke	ep container tightly close	d. Keep cool.			
Disposal	: Dispose of contents and container and international regulations.	in accordance with all loo	cal, regional, n	ational		
Other hazards which do not result in classification	: Prolonged or repeated contact ma	y dry skin and cause irrita	ation.			

Section 3. Composition/information on ingredients

Substance/mixture	: Mixture
Other means of identification	: 00224095; 00267904

CAS number/other identifiers

CAS number : Not applicable.

1.04

Version

Section 3. Composition/information on ingredients

Ingredient name	%	CAS number
Naphtha (petroleum), hydrodesulfurized heavy	30 - <60	64742-82-1
nonane	3 - <5	111-84-2
1,2,4-trimethylbenzene	3 - <5	95-63-6
Talc , not containing asbestiform fibres	1 - <2	14807-96-6
xylene	1 - <2	1330-20-7
carbon black	1 - <2	1333-86-4
2-ethylhexanoic acid, zirconium salt	0.5 - <1	22464-99-9
ethylbenzene	0.2 - <0.5	100-41-4
neodecanoic acid, cobalt salt	0.2 - <0.5	27253-31-2
cumene	0.1 - <0.2	98-82-8
calcium bis(2-ethylhexanoate)	0.1 - <0.2	136-51-6

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

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 me	dical 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.		
Potential acute health effects			
Eye contact	: No known significant effects or critical hazards.		
Inhalation	 Harmful if inhaled. 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)

23

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, protective equipment and emergency procedures

contractor.

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. 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 co	ntainment and cleaning up
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

Section 6. Accidental release measures

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	Put 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

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

Brazil

Section 8. Exposure controls/personal protection

Date of issue

Ingredient name		Exposure limits
nonane		ACGIH TLV (United States, 1/2022). TWA: 200 ppm 8 hours. TWA: 1050 mg/m ³ 8 hours.
1,2,4-trimethylbenzene		ACGIH TLV (United States, 1/2022). TWA: 10 ppm 8 hours.
Talc , not containing asbestife	orm fibres	ACGIH TLV (United States, 1/2022). TWA: 2 mg/m ³ 8 hours. Form: Respirable
xylene		Ministry of Labor and Employment (Brazi 11/2001). [Xylenes (o-, m-, p- isomers)] TWA: 340 mg/m ³ 8 hours. TWA: 78 ppm 8 hours.
carbon black		Ministry of Labor and Employment (Brazi 11/2001). TWA: 3.5 mg/m ³ 8 hours.
2-ethylhexanoic acid, zirconiu	m salt	ACGIH TLV (United States, 1/2022). [Zirconium and compounds] STEL: 10 mg/m ³ , (as Zr) 15 minutes. TWA: 5 mg/m ³ , (as Zr) 8 hours.
ethylbenzene		Ministry of Labor and Employment (Brazi 11/2001). TWA: 340 mg/m ³ 8 hours. TWA: 78 ppm 8 hours.
neodecanoic acid, cobalt salt		ACGIH TLV (United States, 1/2022). [cobalt and inorganic compounds] Skin sensitizer. Inhalation sensitizer. TWA: 0.02 mg/m ³ , (as Co) 8 hours.
cumene		Ministry of Labor and Employment (Brazi 11/2001). Absorbed through skin. TWA: 190 mg/m ³ 8 hours. TWA: 39 ppm 8 hours.
Recommended monitoring procedures		e to appropriate monitoring standards. Reference to nts for methods for the determination of hazardous uired.
Appropriate engineering controls	ventilation or other enginee contaminants below any re	ntilation. Use process enclosures, local exhaust ering controls to keep worker exposure to airborne commended or statutory limits. The engineering control for or dust concentrations below any lower explosive f ventilation equipment.
Environmental exposure controls	: Emissions from ventilation they comply with the requir cases, fume scrubbers, filte	or work process equipment should be checked to ensure ements of environmental protection legislation. In some ers or engineering modifications to the process ry to reduce emissions to acceptable levels.
ndividual protection measur	<u>es</u>	
Hygiene measures	before eating, smoking and Appropriate techniques sho	d face thoroughly after handling chemical products, d using the lavatory and at the end of the working period. buld be used to remove potentially contaminated clothing ng before reusing. Ensure that eyewash stations and b the workstation location.

English (US)	Brazil	6/15

23 November 2022

1.04

Section 8. Exposure controls/personal protection

Eye protection	: Safety glasses with side shields.
Skin 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: natural rubber (latex), polyvinyl alcohol (PVA), Viton ${}^{\otimes}$ 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

English (US) Brazil	7/15
Not soluble	
Result	
1.2°F)	

Section 9. Physical and chemical properties

_		
Partition coefficient: n- octanol/water	:	Not applicable.
Auto-ignition temperature	1	Not available.
Decomposition temperature	1	Not available.
Viscosity	1	Kinematic (40°C (104°F)): >21 mm²/s (>21 cSt)
Viscosity	1	> 100 s (ISO 6mm)

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 materia carbon oxides metal oxide/oxides

Section 11. Toxicological information

Information on toxicological effects

Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
Naphtha (petroleum), hydrodesulfurized heavy	LD50 Oral	Rat	>5000 mg/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	-
xylene	LD50 Dermal	Rabbit	1.7 g/kg	-
-	LD50 Oral	Rat	4.3 g/kg	-
carbon black	LD50 Oral	Rat	>10 g/kg	-
2-ethylhexanoic acid,	LD50 Dermal	Rabbit	>5 g/kg	-
zirconium salt				
	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	-
neodecanoic acid, cobalt salt	LD50 Oral	Rat - Female	1098 mg/kg	-
cumene	LC50 Inhalation Vapor	Rat	39000 mg/m ³	4 hours
	LD50 Dermal	Rabbit	12.3 g/kg	-
	LD50 Oral	Rat	1400 mg/kg	-

Irritation/Corrosion

English (US)	Brazil

Section 11 Toxicological information

	Result			Species	Score	e Exposur	9	Observation
xylene	Skin - Moderate ir		- Moderate irritant Rabbit -		-	24 hours mg	500	-
<u>Conclusion/Summary</u> Skin Eyes Respiratory	: There are	e no dat	a availa	ble on the mi ble on the mi ble on the mi	xture itse	lf.		
Sensitization Product/ingredient name	Route of exposure	5	Species			Result		
neodecanoic acid, cobalt salt	skin	٩	Mouse			Sensitizing		
Respiratory <u>Jutagenicity</u> Not available. Conclusion/Summary Carcinogenicity Not available.	: There are	e no dat	a availa	ble on the mi	xture itse	lf.		
Conclusion/Summary	: There are	e no dat	a avalla	ole on the mi	xiure lise	l		
Classification		1450						
Classification Product/ingredient name Kylene carbon black ethylbenzene neodecanoic acid, cobalt sa cumene	OSHA - - - - t -	IARC 3 2B 2B 2B 2B 2B		sonably antic	ipated to	be a human carc be a human carc		
Product/ingredient name xylene carbon black ethylbenzene neodecanoic acid, cobalt sa cumene Carcinogen Classification c IARC: 1, 2A, 2B, 3, 4 NTP: Known to be a OSHA: + Not listed/not regula Reproductive toxicity Not available.	- - - ode: human carcin tted: -	3 2B 2B 2B	- - Rea Rea	sonably antic sonably antic / anticipated to	ipated to ipated to be a huma	be a human carc be a human carc n carcinogen		
Product/ingredient name xylene carbon black ethylbenzene neodecanoic acid, cobalt sa cumene Carcinogen Classification c IARC: 1, 2A, 2B, 3, 4 NTP: Known to be a OSHA: +	- - - ode: human carcin tted: -	3 2B 2B 2B	- - Rea Rea	sonably antic sonably antic	ipated to ipated to be a huma	be a human carc be a human carc n carcinogen		

Brazil

Version

Section 11. Toxicological information

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

Date of issue

Specific target organ toxicity (repeated exposure)

Name	Category	Route of exposure	Target organs
Naphtha (petroleum), hydrodesulfurized heavy	Category 1	-	central nervous system (CNS)
ethylbenzene	Category 2	-	hearing organs
neodecanoic acid, cobalt salt	Category 1	oral	gastrointestinal tract
cumene	Category 2	-	-

Target organs

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

Aspiration hazard

Name	Result
Naphtha (petroleum), hydrodesulfurized heavy	ASPIRATION HAZARD - Category 1
nonane	ASPIRATION HAZARD - Category 1
xylene	ASPIRATION HAZARD - Category 1
ethylbenzene	ASPIRATION HAZARD - Category 1
cumene	ASPIRATION HAZARD - Category 1

Information on the likely routes of exposure	:	Not available.
Potential acute health effect	<u>s</u>	
Eye contact	1	No known significant effects or critical hazards.
Inhalation	:	Harmful if inhaled. Can cause central nervous system (CNS) depression. May cause drowsiness or dizziness.
Skin contact	1	Causes mild skin irritation. Defatting to the skin.
Ingestion	1	Can cause central nervous system (CNS) depression.

Symptoms related to the physical, chemical and toxicological characteristics

Date of issue

Version

Section 11. Toxicological information

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. Carbon black is utilized as a raw naterial in many liquid coating formulations. In this case, the carbon black particle are bound in a matrix with no meaningful potential for human exposure to unbour particles of carbon black when the product is applied with a brush or roller. Sandin 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). Most carbon blacks contain trace quantities of polyaromatic hydrocarbons (PAH). PAHs are not expected to be released in biological fluids and are therefore not likely available for biological activity. Exposure to component solvent vapor concentrations in exceed for the stated occupational exposure limit may result in adverse health effects such as mucous membrane and respiratory system. Symptoms and signs include headach dizziness, fatigue, muscular weakness, drowsiness and, in extreme cases, loss of consciousness. Solvents may cause some of the above effects by absorption hrough the skin. There is some evidence that repeated exposure to organic solver approximation with constant loud noise can cause greater hearing loss the expected from exposure to noise alone. If splashed in the eyes, the liquid may cause irritation and reversible damage. Ingestion may cause nausea, diarrhea arromiting. This takes into account, where known, delayed and immediate effects and also chronic effects of components from short-term and long-term exposure to raise and is a chronic effects of components from short-term and long-term exposure to raise and also chronic effects of components from short-term and long-term exposure to raise and also chronic effects of components from short-term and long-term exposure to raise and also chronic effects of components from short-term and long-term exposure to raise and also chronic effects of components from short-term and long-term exposure	es ad ng o bt or ss h e ne, if vent an nd
Short term exposure Potential immediate	There are no data available on the mixture itself.	
effects		

English (US) Brazil

11/15

1.04

Section 11. Toxicological information

Potential delayed effects Long term exposure	: There are no data available on the mixture itself.
Long term exposure	
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	<u>ects</u>
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.
--------------	---

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

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 BLACK / SIGMA 8000	61114.0	6746.6	18722.6	46.1	8.8
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
neodecanoic acid, cobalt salt	1098	N/A	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
P-ethylhexanoic acid, zirconium salt	Acute LC50 >100 mg/l	Fish	96 hours
ethylbenzene	Acute EC50 1.8 mg/l Fresh water Chronic NOEC 1 mg/l Fresh water	Daphnia Daphnia - Ceriodaphnia dubia	48 hours -

Persistence/degradability

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

English (US)	Brazil	12/15
--------------	--------	-------

Section 12. Ecological information

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

Bioaccumulative potential

Product/ingredient name	LogP _{ow}	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
cumene	3.55	35.48	low

Mobility in soil

Soil/water partition	: Not available.
coefficient (Koc)	

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 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

	Brazil (ANTT)	IMDG	IATA
UN number	UN1263	UN1263	UN1263
UN proper shipping name	PAINT	PAINT	PAINT
Transport hazard class(es)	3	3	3
Packing group	III	III	
Environmental hazards	Yes. The environmentally hazardous substance mark is not required.	Yes.	Yes. The environmentally hazardous substance mark is not required.
		English (US)	Brazil 13/15

Code 0000011 Product name	61540 SIGMARINE 48 BLACK / SIGMA 8	Date of issue	23 November 2022	Version	1.04
Marine pollutant substances	Transport inform Not applicable.	(Naphtha hydrodesu	a (petroleum), Ilfurized heavy, onane)	Not applicat	ole.

Additional information

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

History

Date of previous issue	: 10/26/2021
Version	: 1.04
Prepared by	: 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	t has changed from previously issued version.

Disclaimer

Section 16. Other information

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.