SAFETY DATA SHEET



Date of issue/Date of revision24 November 2022Version 30

Section 1. Identification	
Product name	: SIGMARINE 48 BASE Z
Product code	: 00204618
Other means of identification	: Not available.
Product type	: Liquid.
Relevant identified uses of	the substance or mixture and uses advised against
Product use	: Professional applications, Used by spraying.
Use of the substance/ mixture	: Coating.
Uses advised against	: Not applicable.
Manufacturer	: PPG Industries, Inc. One PPG Place Pittsburgh, PA 15272
<u>Emergency telephone</u> <u>number</u>	: (412) 434-4515 (U.S.) (514) 645-1320 (Canada) SETIQ Interior de la República: 800-00-214-00 (México) SETIQ Ciudad de México: (55) 5559-1588 (México)
Technical Phone Number	: 888-977-4762

Section 2. Hazards identification

OSHA/HCS status	 This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).
Classification of the substance or mixture	 FLAMMABLE LIQUIDS - Category 3 CARCINOGENICITY - Category 1B TOXIC TO REPRODUCTION - Category 2 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Narcotic effects) - Category 3 SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) - Category 1
	Percentage of the mixture consisting of ingredient(s) of unknown acute toxicity: 38.9% (oral), 73.5% (dermal), 69% (inhalation)
	This product contains TiO2 which has been classified as a GHS Carcinogen Category 2 based on its IARC 2B classification. For many 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
	United States Page: 1/18

Product name SIGMARINE 48 BASE Z

Section 2. Hazards identification

	engineering controls (see Section 8).
GHS label elements	
Hazard pictograms	
Signal word	: Danger
Hazard statements	 Flammable liquid and vapor. May cause drowsiness or dizziness. May cause cancer. Suspected of damaging fertility or the unborn child. Causes damage to organs through prolonged or repeated exposure. (central nervous system (CNS))
Precautionary statements	
Prevention	: Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. 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. Use only outdoors or in a well-ventilated area. Do not breathe vapor. Do not eat, drink or smoke when using this product. Wash thoroughly after handling.
Response	: IF exposed or concerned: Get medical advice or attention. IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER or doctor if you feel unwell. IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water.
Storage	: Store locked up. 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.
Supplemental label elements	: Sanding and grinding dusts may be harmful if inhaled. Repeated exposure to high vapor concentrations may cause irritation of the respiratory system and permanent brain and nervous system damage. Inhalation of vapor/aerosol concentrations above the recommended exposure limits causes headaches, drowsiness and nausea and may lead to unconsciousness or death. Avoid contact with skin and clothing. Wash thoroughly after handling. Emits toxic fumes when heated. DANGER - RAGS, STEEL WOOL OR WASTE SOAKED WITH THIS PRODUCT MAY SPONTANEOUSLY CATCH FIRE IF IMPROPERLY DISCARDED. IMMEDIATELY AFTER EACH USE, PLACE RAGS, STEEL WOOL OR WASTE IN A SEALED WATER-FILLED METAL CONTAINER.
Hazards not otherwise classified	: Prolonged or repeated contact may dry skin and cause irritation.

Product name SIGMARINE 48 BASE Z

Section 3. Composition/information on ingredients

Substance/mixture

Product name

: Mixture

: SIGMARINE 48 BASE Z

Ingredient name	%	CAS number
Naphtha (petroleum), hydrodesulfurized heavy	≥20 - ≤50	64742-82-1
titanium dioxide	≥10 - ≤20	13463-67-7
nonane	≥1.0 - ≤4.9	111-84-2
1,2,4-trimethylbenzene	≥1.0 - ≤3.3	95-63-6
Talc , not containing asbestiform fibres	≥1.0 - ≤5.0	14807-96-6
xylene	≤1.7	1330-20-7
2-ethylhexanoic acid, zirconium salt	≥1.0 - ≤5.0	22464-99-9
Hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, < 2% aromatics	≥1.0 - ≤5.0	64742-48-9
calcium bis(2-ethylhexanoate)	<1.0	136-51-6
neodecanoic acid, cobalt salt	<1.0	27253-31-2
ethylbenzene	<1.0	100-41-4
2-butanone oxime	<1.0	96-29-7
cumene	<1.0	98-82-8

SUB codes represent substances without registered CAS Numbers.

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

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

Occupational exposure limits, if available, are listed in Section 8.

Section 4. First aid measures

If ingestion, irritation, any type of overexposure or symptoms of overexposure occur during or persists after use of this product, contact a POISON CONTROL CENTER, EMERGENCY ROOM OR PHYSICIAN immediately; have Safety Data Sheet information available. Never give anything by mouth to an unconscious or convulsing person.

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.

Most important symptoms/effects, acute and delayed

Potential acute health Eye contact	effects : No known significant effects or critical hazards.	
Inhalation	: Can cause central nervous system (CNS) depression. May cause drowsiness or dizziness.	
Skin contact	: Defatting to the skin. May cause skin dryness and irritation.	
Ingestion	: Can cause central nervous system (CNS) depression.	
	United States Page:	3/1

Product name SIGMARINE 48 BASE Z

Section 4. First aid measures

Over-exposure signs/symptoms

Eye contact Inhalation	 No specific data. 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 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

Indication of immediate medical 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. Wash contaminated clothing thoroughly with water before removing it, or wear gloves.

See toxicological information (Section 11)

Section 5. Fire-fighting measures

	United States Page: 4/18
Hazardous thermal decomposition products	: Decomposition products may include the following materials: carbon oxides metal oxide/oxides
Specific hazards arising from the chemical	: Flammable liquid and vapor. In a fire or if heated, a pressure increase will occur and the container may burst, with the risk of a subsequent explosion. Vapors may accumulate in low or confined areas or travel a considerable distance to a source of ignition and flash back. Runoff to sewer may create fire or explosion hazard.
Unsuitable extinguishing media	: Do not use water jet.
Suitable extinguishing media	: Use dry chemical, CO ₂ , water spray (fog) or foam.
Extinguishing media	

Product name SIGMARINE 48 BASE Z

Section 5. Fire-fighting measures

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	tive equipment and emergency procedures
For non-emergency personnel	: No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Shut off all ignition sources. No flares, smoking or flames in hazard area. 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).
Methods and materials for co	ontainment 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 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

Section 7. Handling and storage

Precautions for safe handling

Protective measures	: 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. 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

information and Section 13 for waste disposal.

Product name SIGMARINE 48 BASE Z

Section 7. Handling and storage

	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.
Special precautions	: Ingestion of product or cured coating may be harmful. Vapors may accumulate in low or confined areas or travel a considerable distance to a source of ignition and flash back. Vapors are heavier than air and may spread along floors. 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. If this material is part of a multiple component system, read the Safety Data Sheet(s) for the other component or components before blending as the resulting mixture may have the hazards of all of its parts.
Advice on general occupational hygiene	Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.
Conditions for safe storage, including any incompatibilities	: 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.

Section 8. Exposure controls/personal protection

Control parameters

Occupational exposure limits

Ingredient name	Exposure limits				
Maphtha (petroleum), hydrodesulfurized heavy	None.				
titanium dioxide	OSHA PEL (United States, 5/2018).				
	TWA: 15 mg/m ³ 8 hours. Form: Total dust				
	ACGIH TLV (United States, 1/2022).				
	TWA: 2.5 mg/m ³ 8 hours. Form: respirable				
	fraction, finescale particles				
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 asbestiform fibres	ACGIH TLV (United States, 1/2022).				
	TWA: 2 mg/m ³ 8 hours. Form: Respirable				
	OSHA PEL Z3 (United States).				
	TWA: 2 mg/m³				
	United States Page: 6/18				

Product name SIGMARINE 48 BASE Z

Section 8. Exposure controls/personal protection

xylene	ACGIH TLV (United States, 1/2022). [xylene] STEL: 651 mg/m ³ 15 minutes. TWA: 434 mg/m ³ 8 hours. TWA: 20 ppm 8 hours.
	TWA: 434 mg/m ³ 8 hours. TWA: 20 ppm 8 hours.
	TWA: 20 ppm 8 hours.
	OSHA PEL (United States, 5/2018).
	[Xylenes]
	TWA: 435 mg/m ³ 8 hours.
	TWA: 100 ppm 8 hours.
2-ethylhexanoic acid, zirconium salt	ACGIH TLV (United States, 1/2022).
	[Zirconium and compounds]
	STEL: 10 mg/m³, (as Zr) 15 minutes.
	TWA: 5 mg/m³, (as Zr) 8 hours.
	OSHA PEL (United States, 5/2018).
	[Zirconium compounds]
	TWA: 5 mg/m ³ , (as Zr) 8 hours.
Hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, < 2%	None.
aromatics	
calcium bis(2-ethylhexanoate)	None.
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.
ethylbenzene	ACGIH TLV (United States, 1/2022).
	Ototoxicant.
	TWA: 20 ppm 8 hours.
	OSHA PEL (United States, 5/2018).
	TWA: 435 mg/m ³ 8 hours.
	TWA: 100 ppm 8 hours.
2-butanone oxime	IPEL (-).
	TWA: 3 ppm
	STEL: 9 ppm
cumene	ACGIH TLV (United States, 1/2022).
	TWA: 5 ppm 8 hours.
	OSHA PEL (United States, 5/2018).
	Absorbed through skin.
	TWA: 245 mg/m ³ 8 hours.
	TWA: 50 ppm 8 hours.

	Key to abbreviations		
Α	 Acceptable Maximum Peak 	S	 Potential skin absorption
ACGIH	 American Conference of Governmental Industrial Hygienists. 	SR	 Respiratory sensitization
С	= Ceiling Limit	SS	 Skin sensitization
F	= Fume	STEL	 Short term Exposure limit values
IPEL	 Internal Permissible Exposure Limit 	TD	= Total dust
OSHA	 Occupational Safety and Health Administration. 	TLV	= Threshold Limit Value
R	= Respirable	TWA	= Time Weighted Average
Z	= OSHA 29 CFR 1910.1200 Subpart Z - Toxic and Hazardous Substances		
Consult	local authorities for accentable exposure limits		

Consult local authorities for acceptable exposure limits.

procedures

Recommended monitoring : 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.

Product name SIGMARINE 48 BASE Z

Section 8. Exposure controls/personal protection

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. The engineering controls also need to keep gas, vapor or dust concentrations below any lower explosive limits. Use explosion-proof ventilation equipment.
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 meas	<u>ures</u>
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. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.
Eye/face 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: 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 antistatic 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. The respiratory protection shall be in accordance to 29 CFR 1910.134.

Product name SIGMARINE 48 BASE Z

Section 9. Physical and chemical properties

Appearance

Physical state	4	Liquid.
Color	1	Various
Odor	1	Aromatic.
Odor threshold	1	Not available.
рН	4	Not applicable.
Melting point	1	Not available.
Boiling point	4	>37.78°C (>100°F)
Flash point	1	Closed cup: 38.5°C (101.3°F)
Auto-ignition temperature	1	Not available.
Decomposition temperature	1	Not available.
Flammability	:	Not available.
Lower and upper explosive (flammable) limits	:	Not available.
Evaporation rate	:	Not available.
Vapor pressure	1	Not available.
Vapor density	1	Not available.
Relative density	1	1.09
Density(lbs / gal)	:	9.1
		Media Result
Solubility(ies)	÷	cold water Not soluble
Partition coefficient: n- octanol/water	:	Not applicable.
Viscosity	:	Kinematic (40°C (104°F)): >21 mm²/s (>21 cSt)
Volatility	:	56% (v/v), 40.673% (w/w)
% Solid. (w/w)	:	59.327

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. Refer to protective measures listed in sections 7 and 8.
Incompatible materials	: Keep away from the following materials to prevent strong exothermic reactions: oxidizing agents, strong alkalis, strong acids.

Product name SIGMARINE 48 BASE Z

Section 10. Stability and reactivity

Hazardous decomposition products

: Depending on conditions, decomposition products may include the following materials: carbon oxides metal oxide/oxides

Section 11. Toxicological information

Information on toxicological effects

Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
Naphtha (petroleum),	LD50 Oral	Rat	>5000 mg/kg	-
hydrodesulfurized heavy				
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	-
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	-
2-ethylhexanoic acid,	LD50 Dermal	Rabbit	>5 g/kg	-
zirconium salt			0.0	
	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	-
neodecanoic acid, cobalt salt	LD50 Oral	Rat - Female	1098 mg/kg	-
ethylbenzene	LC50 Inhalation Vapor	Rat	17.8 mg/l	4 hours
5	LD50 Dermal	Rabbit	17.8 g/kg	-
	LD50 Oral	Rat	3.5 g/kg	-
2-butanone oxime	LD50 Dermal	Rabbit	1100 mg/kg	-
	LD50 Oral	Rat	100 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	-

: There are no data available on the mixture itself.

Irritation/Corrosion

Conclusion/Summary

Product/ingredient name	Result	Species	Score	Exposure	Observation
x ylene	Skin - Moderate irritant	Rabbit	-	24 hours 500 mg	-

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 name SIGMARINE 48 BASE Z

Section 11. Toxicological information

neodecanoic acid, cobalt salt skin Mouse Sensitizing Conclusion/Summary Skin : There are no data available on the mixture itself. Respiratory : There are no data available on the mixture itself. Mutagenicity Conclusion/Summary : There are no data available on the mixture itself. Conclusion/Summary : There are no data available on the mixture itself. Carcinogenicity Conclusion/Summary : There are no data available on the mixture itself. Classification Product/ingredient name OSHA IARC NTP Iffanium dioxide - 2B - - . 2B - - - . 2B - - - . 2B - - - . 2B Reasonably anticipated to be a human carcinogen. - . 2B Reasonably anticipated to be a human carcinogen. - . 2B Reasonably anticipated to be a human carcinogen. - . . 2B - - B .	1	Route of exposure	5	Species		Result			
Skin : There are no data available on the mixture itself. Respiratory : There are no data available on the mixture itself. Mutagenicity Conclusion/Summary : There are no data available on the mixture itself. Carcinogenicity Conclusion/Summary : There are no data available on the mixture itself. Carcinogenicity Conclusion/Summary : There are no data available on the mixture itself. Classification Product/ingredient name OSHA IARC NTP Iffanium dioxide - 2B - - 3 - neodocanoic acid, cobalt salt - 2B - - 2B - - - - - - - 2B - - - - - - - 2B - - - - - <	neodecanoic acid, cobalt salt	skin	N	louse		Sensitizing			
Respiratory : There are no data available on the mixture itself. Mutagenicity Conclusion/Summary : There are no data available on the mixture itself. Carcinogenicity Conclusion/Summary : There are no data available on the mixture itself. Classification Product/ingredient name OSHA IARC NTP Iffanium dioxide - 2B - Network 2B - - Network 2B - - Ineodecanoic acid, cobalt salt - 2B - - 2B Reasonably anticipated to be a human carcinogen. - Carcinogen Classification code: IARC: 1, 2A, 2B, 3, 4 - - MTP: Reasonably anticipated to be a human carcinogen. - - - Carcinogen Classification code: IARC: 1, 2A, 2B, 3, 4 -	Conclusion/Summary								
Mutagenicity Conclusion/Summary : There are no data available on the mixture itself. Carcinogenicity Conclusion/Summary : There are no data available on the mixture itself. Classification Product/ingredient name OSHA IARC NTP Iffanium dioxide xylene neodecanoic acid, cobalt salt ethylbenzene cumene : 2B : 2B Reasonably anticipated to be a human carcinogen. : 2B : Base in the second se	Skin								
Conclusion/Summary : There are no data available on the mixture itself. Carcinogenicity Conclusion/Summary : There are no data available on the mixture itself. Classification Product/ingredient name OSHA IARC NTP Iffanium dioxide - 2B - xylene - 3 - neodecanoic acid, cobalt salt - 2B Reasonably anticipated to be a human carcinogen. ethylbenzene - 2B - cumene - 2B - - 2B Reasonably anticipated to be a human carcinogen. Carcinogen Classification code: - - IARC: 1, 2A, 2B, 3, 4 - - NTP: Known to be a human carcinogen; Reasonably anticipated to be a human carcinogen - OSHA: + - - Not listed/not regulated: - - - Reproductive toxicity - - - Conclusion/Summary : There are no data available on the mixture itself. - - Specific target organ toxicity (single exposure) Category Route of exposure -	Respiratory	Respiratory : There are no data available on the mixture itself.							
Carcinogenicity Conclusion/Summary : There are no data available on the mixture itself. Classification Product/ingredient name OSHA IARC NTP Iffanium dioxide - 2B - xylene - 3 - neodecanoic acid, cobalt salt - 2B Reasonably anticipated to be a human carcinogen. ethylbenzene - 2B Reasonably anticipated to be a human carcinogen. curnene - 2B Reasonably anticipated to be a human carcinogen. Carcinogen Classification code: IARC: 1, 2A, 2B, 3, 4 Reasonably anticipated to be a human carcinogen. MTP: Known to be a human carcinogen; Reasonably anticipated to be a human carcinogen OSHA: + Not isted/not regulated: - Reproductive toxicity Conclusion/Summary : There are no data available on the mixture itself. Teratogenicity Conclusion/Summary : There are no data available on the mixture itself. Specific target organ toxicity (single exposure) Route of exposure Name Category Route of exposure Narcotic effects Naphtha (petroleum), hydrodesulfurized heavy Category 3 - Narcotic effects	<u>Mutagenicity</u>								
Conclusion/Summary : There are no data available on the mixture itself. Classification Product/ingredient name OSHA IARC NTP Iffanium dioxide - 2B - xylene - 2B - neodecanoic acid, cobalt salt - 2B Reasonably anticipated to be a human carcinogen. ethylbenzene - 2B - curnene - 2B - Carcinogen Classification code: IARC: 1, 2A, 2B, 3, 4 NTP: MTP: Known to be a human carcinogen; Reasonably anticipated to be a human carcinogen OSHA: + Not listed/not regulated: - Reproductive toxicity Conclusion/Summary : There are no data available on the mixture itself. Teratogenicity Conclusion/Summary : There are no data available on the mixture itself. Specific target organ toxicity (single exposure) Route of exposure Target organs Name Category Route of exposure Narcotic effects Naphtha (petroleum), hydrodesulfurized heavy Category 3 - Narcotic effects									
Classification Product/ingredient name OSHA IARC NTP Iffanium dioxide - 2B - xylene - 2B Reasonably anticipated to be a human carcinogen. ethylbenzene - 2B - currene - 2B Reasonably anticipated to be a human carcinogen. Carcinogen Classification code: IARC: 1, 2A, 2B, 3, 4 Reasonably anticipated to be a human carcinogen. Carcinogen Classification code: IARC: 1, 2A, 2B, 3, 4 NTP: Known to be a human carcinogen; Reasonably anticipated to be a human carcinogen OSHA: + Not listed/not regulated: - - - - Reproductive toxicity Conclusion/Summary : There are no data available on the mixture itself. Teratogenicity Conclusion/Summary : There are no data available on the mixture itself. Specific target organ toxicity (single exposure) Route of exposure Target organs Name Category Route of exposure - Naphtha (petroleum), hydrodesulfurized heavy Category 3 - Narcotic effects	Carcinogenicity								
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Naphtha (petroleum), hydrodesulfurized heavyCategory 3exposureNarcotic effects	<u>Teratogenicity</u>	There are	no data a	vailable					
Naphtha (petroleum), hydrodesulfurized heavy Category 3 - Narcotic effects	Teratogenicity Conclusion/Summary :			vailable (
	Teratogenicity Conclusion/Summary : Specific target organ toxicity (available o	on the mixture itself.	Route of	Target organs		
	Teratogenicity Conclusion/Summary : Specific target organ toxicity (available o	on the mixture itself.		Target organs		
nonane Category 3 - Narcotic effects	Teratogenicity Conclusion/Summary : <u>Specific target organ toxicity (</u> Name	(single expo	<u>osure)</u>	vailable o	on the mixture itself. Category				
1,2,4-trimethylbenzeneCategory 3-Respiratory tract	Teratogenicity Conclusion/Summary : Specific target organ toxicity (Name Naphtha (petroleum), hydrodesi	(single expo	<u>osure)</u>	available (on the mixture itself. Category				
Talc , not containing asbestiform fibresCategory 3-Respiratory tract	Teratogenicity Conclusion/Summary : Specific target organ toxicity (Name Naphtha (petroleum), hydrodest nonane	(single expo	<u>osure)</u>	available o	Category Category 3 Category 3 Category 3		Narcotic effects Narcotic effects Respiratory tract		
xylene Category 3 - Respiratory tract irritation	Teratogenicity Conclusion/Summary : Specific target organ toxicity (Name Naphtha (petroleum), hydrodesu nonane 1,2,4-trimethylbenzene	(single expo ulfurized hea	<u>osure)</u>	wailable (Category 3 Category 3 Category 3 Category 3 Category 3		Narcotic effects Narcotic effects Respiratory tract irritation Respiratory tract		
cumene Category 3 - Respiratory tract irritation	Teratogenicity Conclusion/Summary : Specific target organ toxicity (Name Naphtha (petroleum), hydrodesu nonane 1,2,4-trimethylbenzene Talc , not containing asbestiform	(single expo ulfurized hea	<u>osure)</u>	vailable (Category 3 Category 3 Category 3 Category 3 Category 3 Category 3		Narcotic effects Narcotic effects Respiratory tract irritation Respiratory tract irritation Respiratory tract		

Specific target organ toxicity (repeated exposure)

Product name SIGMARINE 48 BASE Z

Section 11. Toxicological information

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

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	ASPIRATION HAZARD - Category 1
nonane	ASPIRATION HAZARD - Category 1
xylene	ASPIRATION HAZARD - Category 1
Hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, < 2% aromatics	ASPIRATION HAZARD - Category 1
ethylbenzene	ASPIRATION HAZARD - Category 1
cumene	ASPIRATION HAZARD - Category 1

Information on the likely routes of exposure

Potential acute health effects

 No known significant effects or critical hazards. Can cause central nervous system (CNS) depression. May cause drowsiness or
dizziness.
 Defatting to the skin. May cause skin dryness and irritation. Can cause central nervous system (CNS) depression.
symptoms
 No specific data. Adverse symptoms may include the following: nausea or vomiting headache drowsiness/fatigue dizziness/vertigo unconsciousness reduced fetal weight increase in fetal deaths skeletal malformations
: Adverse symptoms may include the following: irritation dryness cracking reduced fetal weight increase in fetal deaths skeletal malformations

Product name SIGMARINE 48 BASE Z

Ingestion	: Adverse symptoms may include the following: reduced fetal weight increase in fetal deaths skeletal malformations
Delayed and immediate effect	ts and also chronic effects from short and long term exposure
Conclusion/Summary	: There are no data available on the mixture itself. This product contains TiO2 which has been classified as a GHS Carcinogen Category 2 based on its IARC 2B classification. For many 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.
<u>Short term exposure</u>	
Potential immediate effects	: There are no data available on the mixture itself.
Potential delayed effects Long term exposure	: There are no data available on the mixture itself.
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
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	: May cause 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 toxic	ity
Acute toxicity estimates	

Product name SIGMARINE 48 BASE Z

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/ I)
SIGMARINE 48 BASE Z	69533.9	31635.8	24696.4	59.5	11.2
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
neodecanoic acid, cobalt salt	1098	N/A	N/A	N/A	N/A
ethylbenzene	3500	17800	N/A	17.8	1.5
2-butanone oxime	500	1100	N/A	N/A	N/A
cumene	1400	12300	N/A	39	N/A

Section 12. Ecological information

Toxicity

Product/ingredient name	Result	Species	Exposure
iffanium 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 Chronic NOEC 1 mg/l Fresh water	Daphnia Daphnia - Ceriodaphnia dubia	48 hours -

Persistence and degradability

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

: Not available.

United States Page: 14/18

Product name SIGMARINE 48 BASE Z

Section 13. Disposal considerations

Disposal methods

: The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. 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.

Disposal should be in accordance with applicable regional, national and local laws and regulations. Refer to Section 7: HANDLING AND STORAGE and Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION for additional handling information and protection of employees. Section 6. Accidental release measures

	DOT	IMDG	ΙΑΤΑ
UN number	UN1263	UN1263	UN1263
UN proper shipping name	PAINT	PAINT	PAINT
Transport hazard class (es)	3	3	3
Packing group	Ш	111	
Environmental hazards	No.	Yes.	Yes. The environmentally hazardous substance mark is not required.
Marine pollutant substances	Not applicable.	(Naphtha (petroleum), hydrodesulfurized heavy, nonane)	Not applicable.
Product RQ (lbs)	7022.5	Not applicable.	Not applicable.
RQ substances	(xylene)	Not applicable.	Not applicable.

14. Transport information

Additional information

DOT	This product may be re-classified as "Combustible Liquid," unless transported by vessel or aircraft. Non-bulk packages (less than or equal to 119 gal) of combustible liquids are not regulated as hazardous materials in package sizes less than the product reportable quantity.
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.

One time notification

Product name SIGMARINE 48 BASE Z

14. Transport information

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

United States

United States inventory (TSCA 8b) : All components are active or exempted.

, , ,
chemical export notification:
Not applicable.
ngredients

No products were found.

SARA 311/312

Classification : FLAMMABLE LIQUIDS - Category 3 CARCINOGENICITY - Category 1B TOXIC TO REPRODUCTION - Category 2 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Narcotic effects) -Category 3 SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) - Category 1 HNOC - Defatting irritant

Composition/information on ingredients

Name	%	Classification
Naphtha (petroleum), hydrodesulfurized heavy	≥20 - ≤50	FLAMMABLE LIQUIDS - Category 4 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Narcotic effects) - Category 3 SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) - Category 1 ASPIRATION HAZARD - Category 1 HNOC - Defatting irritant
titanium dioxide	≥10 - ≤20	CARCINOGENICITY - Category 2
nonane	≥1.0 - ≤4.9	FLAMMABLE LIQUIDS - Category 3
		ACUTE TOXICITY (inhalation) - Category 4
		SKIN IRRITATION - Category 2
		SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE)
		(Narcotic effects) - Category 3
		ASPIRATION HAZARD - Category 1
		HNOC - Defatting irritant
1,2,4-trimethylbenzene	≥1.0 - ≤3.3	FLAMMABLE LIQUIDS - Category 3
		ACUTE TOXICITY (inhalation) - Category 4
		SKIN IRRITATION - Category 2
		EYE IRRITATION - Category 2A
		SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE)
		(Respiratory tract irritation) - Category 3
		United States Page: 16/18

Product name SIGMARINE 48 BASE Z

Section 15. Regulatory information

Talc , not containing asbestiform	≥1.0 - ≤5.0	HNOC - Defatting irritant SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE)
fibres	21.0 - 35.0	(Respiratory tract irritation) - Category 3
xylene	≤1.7	FLAMMABLE LIQUIDS - Category 3
xylerie	21.7	ACUTE TOXICITY (dermal) - Category 4
		ACUTE TOXICITY (inhalation) - Category 4
		SKIN IRRITATION - Category 2
		EYE IRRITATION - Category 2A
		SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE)
		(Respiratory tract irritation) - Category 3
		ASPIRATION HAZARD - Category 1
2-ethylhexanoic acid, zirconium	≥1.0 - ≤5.0	COMBUSTIBLE DUSTS
salt		TOXIC TO REPRODUCTION - Category 2
Hydrocarbons, C10-C13, n-	≥1.0 - ≤5.0	FLAMMABLE LIQUIDS - Category 4
alkanes, isoalkanes, cyclics, <		ASPIRATION HAZARD - Category 1
2% aromatics		HNOC - Defatting irritant
calcium bis(2-ethylhexanoate)	<1.0	SERIOUS EYE DAMAGE - Category 1
		TOXIC TO REPRODUCTION - Category 2
neodecanoic acid, cobalt salt	<1.0	ACUTE TOXICITY (oral) - Category 4
		SKIN SENSITIZATION - Category 1B
		CARCINOGENICITY - Category 1B
		SPECIFIC TARGET ORGAN TOXICITY (REPEATED
		EXPOSURE) - Category 1
ethylbenzene	<1.0	FLAMMABLE LIQUIDS - Category 2
		ACUTE TOXICITY (inhalation) - Category 4
		CARCINOGENICITY - Category 2
		SPECIFIC TARGET ORGAN TOXICITY (REPEATED
		EXPOSURE) - Category 2
		ASPIRATION HAZARD - Category 1
		HNOC - Defatting irritant
2-butanone oxime	<1.0	FLAMMABLE LIQUIDS - Category 4
	\$1.0	ACUTE TOXICITY (oral) - Category 4
		ACUTE TOXICITY (dermal) - Category 4
		SERIOUS EYE DAMAGE - Category 1
		SKIN SENSITIZATION - Category 1B
	-10	CARCINOGENICITY - Category 2
cumene	<1.0	FLAMMABLE LIQUIDS - Category 3
		ACUTE TOXICITY (oral) - Category 4
		CARCINOGENICITY - Category 1B
		SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE)
		(Respiratory tract irritation) - Category 3
		SPECIFIC TARGET ORGAN TOXICITY (REPEATED
		EXPOSURE) - Category 2
		ASPIRATION HAZARD - Category 1
		HNOC - Defatting irritant

SARA 313

	Chemical name	<u>CAS number</u>	Concentration
Supplier notification	: 1,2,4-trimethylbenzene	95-63-6	1 - 5
	xylene	1330-20-7	0.5 - 1.5
	neodecanoic acid, cobalt salt	27253-31-2	0.1 - 1
	ethylbenzene	100-41-4	0.1 - 1
	cumene	98-82-8	0.1 - 1
		United States	Page: 17/18

Product name SIGMARINE 48 BASE Z

Section 15. Regulatory information

SARA 313 notifications must not be detached from the SDS and any copying and redistribution of the SDS shall include copying and redistribution of the notice attached to copies of the SDS subsequently redistributed.

Additional environmental information is contained on the Environmental Data Sheet for this product, which can be obtained from your PPG representative.

California Prop. 65

WARNING: Cancer - www.P65Warnings.ca.gov.

Section 16. Other information

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

Health : 3 * Flammability : 2 Physical hazards : 0

(*) - Chronic effects

Caution: HMIS® ratings are based on a 0-4 rating scale, with 0 representing minimal hazards or risks, and 4 representing significant hazards or risks. Although HMIS® ratings and the associated label are not required on MSDSs or products leaving a facility under 29 CFR 1910.1200, the preparer may choose to provide them. HMIS® ratings are to be used with a fully implemented HMIS® program. HMIS® is a registered trademark and service mark of the American Coatings Association, Inc.

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

National Fire Protection Association (U.S.A.)

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.