# SAFETY DATA SHEET

**SIGMARINE 48 BASE (TINTED)** 



Date of issue 11 April 2024

Version 4

# 1. Product and company identification

Product name       : SIGMARINE 48 BASE (TINTED)         Product code       : 00445963         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.		
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.	Product name	: SIGMARINE 48 BASE (TINTED)
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.	Product code	: 00445963
Product use       : Professional applications, Used by spraying.         Use of the substance/ mixture       : Coating.	Product type	: Liquid.
mixture		
Uses advised against : Not applicable.		: Coating.
	Uses advised against	: Not applicable.

Supplier's details	: PPG PMC Japan Co., Ltd., 8F, Shintetsu Bldg., 1-1, Daikaidori 1-chome, Kobe
	652-0803 Japan; Tel: +81-78-574-2777

Emergency telephone : 078 574 2777 number

## 2. Hazards identification

GHS Classification	: FLAMMABLE LIQUIDS - Category 3
GID Classification	
	SKIN IRRITATION - Category 2
	EYE IRRITATION - Category 2A
	RESPIRATORY SENSITIZATION - Category 1
	SKIN SENSITIZATION - Category 1
	CARCINOGENICITY - Category 1A
	TOXIC TO REPRODUCTION - Category 1B
	SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) - Category 2
	SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Narcotic effects) - Category 3
	SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) - Category 1
	HAZARDOUS TO THE AQUATIC ENVIRONMENT - ACUTE HAZARD - Category 3
	HAZARDOUS TO THE AQUATIC ENVIRONMENT - CHRONIC HAZARD -
	Category 2
GHS label elements	
Hazard pictograms	
nazara protogramo	
	$\mathbf{v}$ $\mathbf{v}$ $\mathbf{v}$ $\mathbf{v}$
Signal word	: Danger

	auot	nunic	0.0		DAGE	

2. Hazards identifi	ation
Hazard statements	Flammable liquid and vapor. Causes skin irritation. May cause an allergic skin reaction. Causes serious eye irritation. May cause allergy or asthma symptoms or breathing difficulties if inhaled. May cause drowsiness or dizziness. May cause cancer. May damage fertility or the unborn child. May cause damage to organs. (central nervous system (CNS), kidneys, liver, respiratory organs) Causes damage to organs through prolonged or repeated exposure. (central nervous system (CNS), nervous system, respiratory organs) Harmful to aquatic life. Toxic to aquatic life with long lasting effects.
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. Wear respiratory protection. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Use only outdoors or in a well-ventilated area. Avoid release to the environment. Do not breathe vapor. Do not eat, drink or smoke when using this product. Wash thoroughly after handling. Contaminated work clothing should not be allowed out of the workplace.
Response	Collect spillage. IF exposed or concerned: Call a POISON CENTER or doctor. IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER or doctor if you feel unwell. If experiencing respiratory symptoms: Call a POISON CENTER or doctor. IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water. IF ON SKIN: Wash with plenty of water. If skin irritation or rash occurs: Get medical advice or attention. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice or attention.
Storage	Store locked up. Store in a well-ventilated place. Keep container tightly closed.
Disposal	Dispose of contents and container in accordance with all local, regional, national and international regulations.
Other hazards which do not result in classification	✓rolonged or repeated contact may dry skin and cause irritation. Contains a substance that may emit formaldehyde if stored beyond its shelf life and/or during cure at curing temperatures greater than 60C (140F).

# 3. Composition/information on ingredients

Substance/mixture	:	Mixture
CAS number/other identifiers		
CAS number	÷	Not applicable.
CSCL number	;	Not available.

Japan Page: 2/16

#### Date of issue 11 April 2024

### 3. Composition/information on ingredients

Ingredient name	%	CAS number	CSCL
Naphtha (petroleum), hydrodesulfurized heavy	20 - <25	64742-82-1	Not available.
Naphtha (petroleum), hydrotreated heavy	15 - <20	64742-48-9	Not available.
titanium dioxide (excluding nanoparticle)	7 - <10	13463-67-7	1-558; 5-5225
Talc containing no asbestos or quartz	3 - <5	14807-96-6	Not available.
2-ethylhexanoic acid	2 - <3	149-57-5	2-608
Xylene	1 - <2	1330-20-7	3-3; 3-60
Solvent naphtha (petroleum), heavy arom	0.5 - <1	64742-94-5	Not available.
carbon black	0.5 - <1	1333-86-4	5-3328; 5-5222
2-ethylhexanoic acid, zirconium salt	0.2 - <0.5	22464-99-9	2-615
calcium bis(2-ethylhexanoate)	0.2 - <0.5	136-51-6	2-611
Ethylbenzene	0.2 - <0.5	100-41-4	3-28; 3-60
cobalt(II) 2-ethylhexanoate	0.2 - <0.5	136-52-7	2-615
Butan-2-one oxime	0.1 - <0.2	96-29-7	2-546
Ethanol	0.1 - <0.2	64-17-5	2-202
phthalocyanine green	0.1 - <0.2	1328-53-6	5-3315
Silica silicon dioxide containing crystalline and amorphous	<0.1	7631-86-9	1-548
crystalline silica, respirable powder (>10 microns)	<0.1	14808-60-7	1-548

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.

### 4. First aid measures

Description of necessary first aid measures

Eye contact	<ul> <li>Remove contact lenses, irrigate copiously with clean, fresh water, holding the eyelids apart for at least 10 minutes and seek immediate medical advice.</li> </ul>
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	<ul> <li>Remove contaminated clothing and shoes. Wash skin thoroughly with soap and water or use recognized skin cleanser. Do NOT use solvents or thinners.</li> </ul>
Ingestion	<ul> <li>If swallowed, seek medical advice immediately and show this container or label. Keep person warm and at rest. Do NOT induce vomiting.</li> </ul>

Most important symptoms/effects, acute and delayed

Potential acute health effects	
Eye contact	Causes serious eye irritation.
Inhalation	Can cause central nervous system (CNS) depression. May cause drowsiness or dizziness. May cause allergy or asthma symptoms or breathing difficulties if inhaled.
Skin contact	May cause damage to organs following a single exposure in contact with skin. Causes skin irritation. Defatting to the skin. May cause an allergic skin reaction.
Ingestion	May cause damage to organs following a single exposure if swallowed. Can cause central nervous system (CNS) depression.
Over-exposure signs/sympto	<u>ms</u>
Eye contact	Adverse symptoms may include the following: pain or irritation watering redness

Product code 00445963 Product name SIGMARINE	Date of issue 11 April 2024         Version 4           48 BASE (TINTED)			
4. First aid measures				
Inhalation	: Adverse symptoms may include the following: wheezing and breathing difficulties asthma 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			
Indication of immediate me	dical attention and special treatment needed, if necessary			
Notes to physician	: In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.			
Specific treatments	: 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)

# 5. Fire-fighting measures

<u>Extinguishing media</u>	
Suitable extinguishing media	: Use dry chemical, CO <sub>2</sub> , 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 nitrogen oxides metal oxide/oxides Formaldehyde.

breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

material may pose the same hazard as the spilled product. Note: see Section 1 for

emergency contact information and Section 13 for waste disposal.

## 6. Accidental release measures

equipment for fire-fighters

Personal precautions, protective equipment and emergency procedures

For non-emergency personnel	: No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. 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".
·	<ul> <li>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.</li> </ul>
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

### 7. Handling and storage

Precautions for safe handling	: Put on appropriate personal protective equipment (see Section 8). Persons with a history of skin sensitization problems or asthma, allergies or chronic or recurrent respiratory disease should not be employed in any process in which this product is used. Avoid exposure - obtain special instructions before use. Avoid exposure during pregnancy. Do not handle until all safety precautions have been read and understood. Do not get in eyes or on skin or clothing. Do not breathe vapor or mist. Do not ingest. 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.
	ose explosion-proof electroal (ventilating, lighting and material handling) equipment.

### 7. Handling and storage

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 : 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.

## 8. Exposure controls/personal protection

### **Control parameters**

### **Occupational exposure limits**

Exposure limits
Japan Society for Occupational Health (Japan, 9/2022). [Class 1 dusts (Activated charcoal, Alumina, Aluminium, Bentonite, Diatomite, Graphite, Kaolinite, Pagodite, Pyrites, Pyrite cinder, Talc)] OEL-M: 0.5 mg/m <sup>3</sup> 8 hours. Form: Respirable dust (Class 1 Dust) OEL-M: 2 mg/m <sup>3</sup> 8 hours. Form: Total dust (Class 1 Dust)
Industrial Safety and Health Act (Japan, 6/2020). [xylene] TWA: 50 ppm 8 hours. Japan Society for Occupational Health (Japan, 9/2022). OEL-M: 50 ppm 8 hours. OEL-M: 217 mg/m <sup>3</sup> 8 hours.
Japan Society for Occupational Health (Japan, 9/2022). Absorbed through skin. OEL-M: 87 mg/m <sup>3</sup> 8 hours. OEL-M: 20 ppm 8 hours. Industrial Safety and Health Act (Japan, 6/2020). TWA: 20 ppm 8 hours.
Japan Society for Occupational Health (Japan, 9/2022). [Cobalt and compounds without tungsten carbide, (as Co)] Skin sensitizer. Inhalation sensitizer. OEL-M: 0.05 mg/m <sup>3</sup> , (as Co) 8 hours.
Japan Society for Occupational Health (Japan, 9/2022). [Copper and compounds] Skin sensitizer.

## 8. Exposure controls/personal protection

crystalline silica, respirable powder (>10 microns)	Japan Society for Occupational Health (Japan, 9/2022). [Respirable crystalline silica] OEL-C: 0.03 mg/m <sup>3</sup> Form: Respirable dust	
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.

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	: Emissions from ventilation or work process equipment should be checked to ensure

Linvironinentai exposure	. Emissions norm ventilation of work process equipment should be checked to ensure
controls	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	sures
Hygiene measures	: Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.
Eye protection	: Chemical splash goggles.
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	: butyl rubber
Body protection	: Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product. 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.

## 9. Physical and chemical properties

<b>Appearance</b>				
Physical state	: Liquid.			
Color	: Various			
Odor	: Characteristic.			
Boiling point	: >37.78°C (>100°F)	: >37.78°C (>100°F)		
Flash point	: Closed cup: 48°C (1	: Closed cup: 48°C (118.4°F)		
Relative density	: 1.05			
Solubility/icc)	Media	Result		
Solubility(ies)	cold water	Not soluble		

## 10. Stability and reactivity

	5
Reactivity	: No specific test data related to reactivity available for this product or its ingredients.
Chemical stability	: The product is stable.
Possibility of hazardous reactions	: Under normal conditions of storage and use, hazardous reactions will not occur.
Conditions to avoid	: When exposed to high temperatures may produce hazardous decomposition products.
Incompatible materials	: Keep away from the following materials to prevent strong exothermic reactions: oxidizing agents, strong alkalis, strong acids.
Hazardous decomposition products	: Depending on conditions, decomposition products may include the following materials: carbon oxides nitrogen oxides Formaldehyde. metal oxide/oxides

## **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	-
Naphtha (petroleum), hydrotreated heavy	LD50 Dermal	Rabbit	>5000 mg/kg	-
	LD50 Oral	Rat	>6 g/kg	-
titanium dioxide (excluding nanoparticle)	LC50 Inhalation Dusts and mists	Rat	>6.82 mg/l	4 hours
	LD50 Dermal	Rabbit	>5000 mg/kg	-
	LD50 Oral	Rat	>5000 mg/kg	-
2-ethylhexanoic acid	LD50 Dermal	Rat	>2000 mg/kg	-
-	LD50 Oral	Rat	3640 mg/kg	-
Xylene	LD50 Dermal	Rabbit	1.7 g/kg	-
	LD50 Oral	Rat	4.3 g/kg	-
Solvent naphtha (petroleum), heavy arom	LC50 Inhalation Dusts and mists	Rat	>5.2 mg/l	4 hours
-	LD50 Oral	Rat	>5 g/kg	-
carbon black	LD50 Oral	Rat	>10 g/kg	-
2-ethylhexanoic acid,	LD50 Dermal	Rabbit	>5 g/kg	-
			Japan	Page: 8/1

Product code 00445963 Product name SIGMARINE 48 BASE (TINTED)		Date of issue	Version 4	
1. Toxicological	information			
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	-
cobalt(II) 2-ethylhexanoate	LD50 Dermal	Rabbit	>5 g/kg	-
	LD50 Oral	Rat	3129 mg/kg	-
Butan-2-one oxime	LD50 Dermal	Rabbit	1100 mg/kg	-
	LD50 Oral	Rat	100 mg/kg	-
Ethanol	LC50 Inhalation Vapor	Rat	124700 mg/m <sup>3</sup>	4 hours
	LD50 Dermal	Rat	17100 mg/kg	-
	LD50 Oral	Rat	7 g/kg	-
phthalocyanine green	LD50 Oral	Rat	>6400 mg/kg	-
Silica silicon dioxide containing crystalline and	LD50 Dermal	Rabbit	>5000 mg/kg	-
amorphous	LD50 Oral	Rat - Male, Female	>5000 mg/kg	-

### Irritation/Corrosion

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

### **Sensitization**

Not available.

### **Mutagenicity**

Not available.

### **Carcinogenicity**

Not available.

### **Reproductive toxicity**

Not available.

#### **Teratogenicity**

Not available.

### Specific target organ toxicity (single exposure)

Name	Category	Route of exposure	Target organs
Naphtha (petroleum), hydrodesulfurized heavy	Category 3	-	Narcotic effects
Naphtha (petroleum), hydrotreated heavy	Category 3	-	Respiratory tract irritation
Talc containing no asbestos or quartz	Category 1	-	respiratory organs
2-ethylhexanoic acid	Category 2	-	respiratory system
Xylene	Category 1	-	central nervous system (CNS), kidneys, liver, respiratory organs
	Category 3		Narcotic effects
Solvent naphtha (petroleum), heavy arom	Category 3	-	Respiratory tract irritation
	Category 3		Narcotic effects
Ethylbenzene	Category 3	-	Respiratory tract irritation
	Category 3		Narcotic effects
Ethanol	Category 3	-	Respiratory tract
		Ja	apan Page: 9/16

### 11. Toxicological information

Silica silicon dioxide containing crystalline and amorphous	Category 3 Category 3	irritation Narcotic effects Respiratory tract irritation	
		irritation	1

### Specific target organ toxicity (repeated exposure)

Name	Category	Route of exposure	Target organs
Naphtha (petroleum), hydrodesulfurized heavy	Category 1	-	central nervous system (CNS)
titanium dioxide (excluding nanoparticle)	Category 1	-	respiratory organs
Talc containing no asbestos or quartz	Category 1	-	respiratory organs
Xylene	Category 1	-	nervous system, respiratory organs
carbon black	Category 1	-	respiratory organs
Ethylbenzene	Category 1	-	hearing organs, nervous system
Butan-2-one oxime	Category 1	-	haematopoietic system
Ethanol	Category 1	-	liver
	Category 2		central nervous system (CNS)
Silica silicon dioxide containing crystalline and amorphous	Category 1	-	immune system, kidneys, respiratory organs

#### **Aspiration hazard**

Name	Result
Naphtha (petroleum), hydrodesulfurized heavy	ASPIRATION HAZARD - Category 1
Naphtha (petroleum), hydrotreated heavy	ASPIRATION HAZARD - Category 1
Xylene	ASPIRATION HAZARD - Category 1
Ethylbenzene	ASPIRATION HAZARD - Category 1

#### Information on the likely : Not available. routes of exposure Potential acute health effects Eye contact : Causes serious eye irritation. Inhalation : Can cause central nervous system (CNS) depression. May cause drowsiness or dizziness. May cause allergy or asthma symptoms or breathing difficulties if inhaled. Skin contact : May cause damage to organs following a single exposure in contact with skin. Causes skin irritation. Defatting to the skin. May cause an allergic skin reaction. Ingestion : May cause damage to organs following a single exposure if swallowed. Can cause central nervous system (CNS) depression. Symptoms related to the physical, chemical and toxicological characteristics

Eye contact

: Adverse symptoms may include the following: pain or irritation watering redness

## 11. Toxicological information

Ŭ	
Inhalation	: Adverse symptoms may include the following: wheezing and breathing difficulties asthma 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 effect	Delayed and immediate effects and also chronic effects from short and long term exposure						
<u>Short term exposure</u>							
Potential immediate effects	:	Not available.					
Potential delayed effects	:	Not available.					
<u>Long term exposure</u>							
Potential immediate effects	:	Not available.					
Potential delayed effects	:	Not available.					
Potential chronic health eff	ect	<u>s</u>					
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. Once sensitized, a severe allergic reaction may occur when subsequently exposed to very low levels.					
Carcinogenicity	:	May cause cancer. Risk of cancer depends on duration and level of exposure.					
Mutagenicity	:	No known significant effects or critical hazards.					
Reproductive toxicity	:	May damage 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)
	ł	<u> </u>	J	lapan	Page: 11/16

Product code 00445963 Product name SIGMARINE 48 BASE (TINTED)	Date of issue 11 April 2024			Version 4	
11. Toxicological information					
GMARINE 48 BASE (TINTED)	N/A	11313.6	N/A	159.9	N/A
2-ethylhexanoic acid	3640	1100	N/A	N/A	N/A
Xylene	4300	1700	N/A	11	N/A
Ethylbenzene	3500	17800	N/A	17.8	N/A
cobalt(II) 2-ethylhexanoate	3129	N/A	N/A	N/A	N/A
Butan-2-one oxime	500	1100	N/A	N/A	N/A
Ethanol	7000	17100	N/A	124.7	N/A

### Other information

Frolonged or repeated contact may dry skin and cause irritation. 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. Contains a substance that may emit formaldehyde if stored beyond its shelf life and/or during cure at curing temperatures greater than 60C ( 140F). Avoid contact with skin and clothing.

### **12. Ecological information**

ż

### **Toxicity**

Product/ingredient name	Result	Species	Exposure
intanium dioxide (excluding nanoparticle)	Acute LC50 >100 mg/l Fresh water	Daphnia - Daphnia magna	48 hours
Solvent naphtha (petroleum), heavy arom	NOEL 0.48 mg/l Fresh water	Daphnia	21 days
2-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 - <i>Ceriodaphnia dubia</i>	48 hours -
Ethanol	Acute EC50 7640 mg/l Fresh water	Daphnia - <i>Daphnia magna</i>	48 hours
phthalocyanine green	Acute LC50 356 mg/l	Fish	96 hours
Silica silicon dioxide containing crystalline and amorphous	Acute EC50 2.2 g/L Fresh water	Daphnia - <i>Daphnia magna</i> - Neonate	48 hours
	Acute LC50 >10000 mg/l	Fish	96 hours
	Chronic NOEC 12.5 mg/l Fresh water	Daphnia - <i>Daphnia magna</i> - Neonate	21 days

### Persistence/degradability

Product/ingredient name	Test	Result		Dose		Inoculum
Ethylbenzene	-	79 % - Rea	dily - 10 days	-		-
Product/ingredient name	Aquatic half-life		Photolysis		Biodeg	radability
₩ylene Ethylbenzene Ethanol	- - -		- -		Readily Readily Readily	/

**Bioaccumulative potential** 

Product code 00445963 Product name SIGMARINE 48 BASE (TINTED)		Date of issue 11 April 2024 Version 4					
12. Ecological information							
Product/ingredient name	LogPow	BCF	Potential				
2-ethylhexanoic acid	2.7	-	Low				
Xylene	3.12	7.4 to 18.5	Low				
Solvent naphtha (petroleum), heavy arom	2.8 to 6.5	-	High				
Ethylbenzene	3.6	79.43	Low				
Butan-2-one oxime	0.63	5.01	Low				
Ethanol	-0.35	-	Low				

Soil/water partition coefficient (Koc)	: Not available.
Mobility	: Not available.
Other adverse effects	: No known significant effects or critical hazards.

### 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.

14. Transport information							
	UN	IMDG	ΙΑΤΑ				
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	No.	No.	No.				
Marine pollutant substances	Not applicable.	Not applicable.	Not applicable.				

#### **Additional information**

UN

: None identified.

**ecial 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

### 15. Regulatory information

#### Fire Service Law

Category	Substance name/Type	Danger category	Signal word	Designated quantity
Category IV	Class II petroleums	Ш	Flammable - Keep Fire Away	1000 L

### Pollutant Release and Transfer Registers (PRTR)

Ingredient name	%	Status	Reference number
Xylene	1.8	Class 1	80

### **Industrial Safety and Health Act**

### Ordinance on the Prevention of the Hazard due to Specified Chemical Substances

None of the components are listed.

#### Substance(s) requiring labelling

Ingredient name	%	Status	Reference number	
Petroleum naphtha	≥20 - ≤30	Listed	330	
Titanium(IV) oxide	≤10	Listed	191	
2-Ethylhexanoic acid	≤10	Listed	69	
Xylene	≤10	Listed	136	
Ethylbenzene	≤10	Listed	70	
Cobalt and its compounds	≤10	Listed	172	
Ethanol	≤10	Listed	61	
Crystalline silica	≤10	Listed	165-2	

### **Chemicals requiring notification**

Ingredient name	%	Status	Reference number
Petroleum naphtha	≥20 - ≤30	Listed	330
Titanium(IV) oxide	≤10	Listed	191
2-Ethylhexanoic acid	≤10	Listed	69
Xylene	≤10	Listed	136
Carbon black	≤10	Listed	130
Ethylbenzene	≤10	Listed	70
Cobalt and its compounds	≤10	Listed	172
Ethanol	≤10	Listed	61
Copper and its compounds	≤10	Listed	379
Crystalline silica	≤10	Listed	165-2

Carcinogens based on Article 577-2 of the Ordinance on ISH

# 15. Regulatory information

None of the components are listed.

#### **Mutagen**

None of the components are listed.

Corrosive liquid Occupational Safety and	: Not listed
Health Law	. Innaminable
Regulations on the Prevention of Tetraalkyl Lead Poisoning	: Not listed
Harmful Substances Subject to Obtaining Permission for Manufacturing	: Not listed
Harmful Substances, Prohibited for Manufacturing	: Not listed
ISHL Enforcement Order Appendix 1 - Dangerous Substances	: Inflammable
Lead regulation	: Not listed
Organic solvents poisoning prevention	: Not applicable.

#### **Poisonous and Deleterious Substances**

None of the components are listed.

### **Chemical Substances Control Law (CSCL)**

Ingredient name	%	Status	Reference number	
<b>X</b> ylene	≤10	Priority assessment	125	
Ethylbenzene	≤10	Priority assessment	50	
Butan-2-one oxime	≤10	Priority assessment	262	
2-Butoxyethanol	≤10	Priority assessment	109	
Toluene	≤10	Priority assessment	46	
n-Hexane	≤10	Priority assessment	3	
Benzene	≤10	Priority assessment	45	
Hydroquinone	≤10	Priority assessment	203	

High Pressure Gas Control : Not available. Law

### Explosives Control Law

None of the components are listed.

Law concerning prevention	1	Not available.
of pollution of the ocean		

#### Maritime Safety Law

Notification Regulating Transportation of Dangerous Materials by Sea

None of the components are listed.

### Product name SIGMARINE 48 BASE (TINTED

### 15. Regulatory information

### **Container class**

None of the components are listed.

JSOH Carcinogen	: 🗭roup 2B
List of Specially Controlled Industrial Waste	: Not listed
Japan inventory	: All components are listed or exempted.
Road law	: Not available.

### 16. Other information

<u>History</u>	
Date of issue/Date of revision	: 11 April 2024
Date of previous issue	: 11/3/2023
Version	: 4
Prepared by	: EHS
Key to abbreviations	<ul> <li>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</li> </ul>

Indicates information that has changed from previously issued version.

### Notice to reader

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.