# SAFETY DATA SHEET



Date of issue 6/1/2023 (month/day/year)

Version 19

# Section 1. Chemical product and company identification

A. Product name<br/>Product code: SIGMARINE 48 CNC7014<br/>: 00243795

## B. Relevant identified uses of the substance or mixture and uses advised against

Product use Use of the substance/ mixture	<ul><li>Professional applications, Used by spraying.</li><li>Coating.</li></ul>
Uses advised against	: Product is not intended, labelled or packaged for consumer use.
C. Supplier's or Importer's information	: PPG SSC (680-090) 19, Yeocheon-ro 217beon-gil, Nam-gu, Ulsan, Korea Tel: +82-52-210-8222
Email Address	Korea.MSDS@PPG.COM
Emergency telephone number:	: +82-52-210-8222

# Section 2. Hazards identification

A. Hazard classification	: 🗾 AMMABLE LIQUIDS - Category 3
	GERM CELL MUTAGENICITY - Category 1B
	CARCINOGENICITY - Category 1B
	TOXIC TO REPRODUCTION - Category 1B
	SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Narcotic effects) -
	Category 3
	SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) - Category 1
	AQUATIC HAZARD (LONG-TERM) - Category 2

This product is classified in accordance with the Industrial Safety and Health Act and the Chemical Control Act.

#### B. GHS label elements, including precautionary statements

Symbol



Signal word

: Danger

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# Section 2. Hazards identification

Hazard statements	<ul> <li>1 226 - Flammable liquid and vapor. H336 - May cause drowsiness or dizziness. H340 - May cause genetic defects. H350 - May cause cancer. H360 - May damage fertility or the unborn child. H372 - Causes damage to organs through prolonged or repeated exposure. (central nervous system (CNS), kidneys, liver) H411 - Toxic to aquatic life with long lasting effects.</li> </ul>
Precautionary statements	
Prevention	<ul> <li>P202 - Do not handle until all safety precautions have been read and understood. P280 - Wear protective gloves, protective clothing and eye or face protection. P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.</li> <li>P241 - Use explosion-proof electrical, ventilating or lighting equipment.</li> <li>P242 - Use non-sparking tools.</li> <li>P243 - Take action to prevent static discharges.</li> <li>P273 - Avoid release to the environment.</li> <li>P260 - Do not breathe vapor.</li> <li>P270 - Do not eat, drink or smoke when using this product.</li> </ul>
Response	<ul> <li>P391 - Collect spillage.</li> <li>P308 + P313 - IF exposed or concerned: Get medical advice or attention.</li> <li>P304 + P312 - IF INHALED: Call a POISON CENTER or doctor if you feel unwell.</li> </ul>
Storage	<ul> <li>▶ 403 + P233 - Store in a well-ventilated place. Keep container tightly closed.</li> <li>P403 + P235 - Keep cool.</li> </ul>
Disposal	: P501 - Dispose of contents and container in accordance with all local, regional, national and international regulations.
C. Other hazards which do not result in	: <b>P</b> rolonged or repeated contact may dry skin and cause irritation.

classification

# Section 3. Composition/information on ingredients

### **CAS number/other identifiers**

CAS number

: Not applicable.

Chemical name	Common name	Identifiers	%
Maphtha (petroleum), hydrodesulfurized	NAPHTHA(PETROLEUM),	CAS: 64742-82-1	10 -<20
heavy	HYDRODESULFURIZED HEAVY		
Naphtha	NAPHTHA	CAS: 8030-30-6	10 -<20
titanium dioxide	TITANIUM DIOXIDE	CAS: 13463-67-7	5 - <10
Talc , not containing asbestiform fibres	Talc, non-asbestos form	CAS: 14807-96-6	1 - <5
2-ethylhexanoic acid	2-ETHYLHEXANOIC ACID	CAS: 149-57-5	1 - <5
Xylene	XYLENES	CAS: 1330-20-7	1 - <5
2-ethylhexanoic acid, zirconium salt	ZIRCONIUM 2-ETHYLHEXANOATE	CAS: 22464-99-9	0.1 - <1
2-ethylhexanoic acid cobalt(2+) salt	COBALT OCTOATE	CAS: 136-52-7	0.1 - <1
ethylbenzene	ETHYLBENZENE	CAS: 100-41-4	0.1 - <1
calcium bis(2-ethylhexanoate)	2-ETHYL-HEXANOIC ACID;CALCIUM	CAS: 136-51-6	0.1 - <1
	SALT		
ethanol	ETHYL ALCOHOL	CAS: 64-17-5	0.1 - <1

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# Section 3. Composition/information on ingredients

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

Α.	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.
В.	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.
C.	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.
D.	Ingestion	:	If swallowed, seek medical advice immediately and show this container or label. Keep person warm and at rest. Do NOT induce vomiting.
Ε.	Notes to physician	:	Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
	Specific treatments	1	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

Α.	Extinguishing media		
	Suitable extinguishing media	:	Use dry chemical, CO <sub>2</sub> , water spray (fog) or foam.
	Unsuitable extinguishing media	:	Do not use water jet.
В.	Specific hazards arising from the chemical	:	An 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
C.	Special equipment for fire-fighting	:	Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.
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## Section 5. Fire-fighting measures

**Fire-fighting procedures** : 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.

## Section 6. Accidental release measures

- A. Personal precautions, protective equipment and emergency procedures
   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.
- **B. 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.

#### C. Methods and materials for containment and cleaning up

- Small spill: Stop leak if without risk. Move containers from spill area. Use spark-proof tools and<br/>explosion-proof equipment. Dilute with water and mop up if water-soluble.<br/>Alternatively, or if water-insoluble, absorb with an inert dry material and place in an<br/>appropriate waste disposal container. Dispose of via a licensed waste disposal<br/>contractor.
- Large spill
   Stop leak if without risk. Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Approach release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see Section 13). Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilled product. Note: see Section 1 for emergency contact information and Section 13 for waste disposal.

# Section 7. Handling and storage

A. Precautions for safe handling
 Fut on appropriate personal protective equipment (see Section 8). Avoid exposure - obtain special instructions before use. Avoid exposure during pregnancy. Do not handle until all safety precautions have been read and understood. Do not get in eyes or on skin or clothing. Do not breathe vapor or mist. Do not ingest. Avoid release to the environment. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Do not enter storage areas and confined spaces unless adequately ventilated. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Store and use away from heat, sparks, open flame or any other ignition source. Use explosion-proof electrical (ventilating, lighting and material handling) equipment. Use only non-sparking tools. Take precautionary measures against electrostatic discharges. Empty containers retain product residue and can be hazardous. Do not reuse container.

## Section 7. Handling and storage

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.

B. Conditions for safe storage, including any incompatibilities
 Storage temperature: 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

#### A. Occupational exposure limits

Ingredient name	Exposure limits
Naphtha	Ministry of Employment and Labor
	(Republic of Korea, 1/2020).
	TWA: 400 ppm 8 hours.
titanium dioxide	Ministry of Employment and Labor
	(Republic of Korea, 1/2020).
	TWA: 10 mg/m <sup>3</sup> 8 hours. Form: total dust
	with less than 1% of free SiO2
Talc , not containing asbestiform fibres	Ministry of Employment and Labor
	(Republic of Korea, 1/2020).
	TWA: 2 mg/m <sup>3</sup> 8 hours. Form: fibers
2-ethylhexanoic acid	ACGIH TLV (United States, 1/2022).
	TWA: 5 mg/m <sup>3</sup> 8 hours. Form: Inhalable
	fraction and vapor
Xylene	Ministry of Employment and Labor
	(Republic of Korea, 1/2020). [Xylene]
	STEL: 150 ppm 15 minutes.
	TWA: 100 ppm 8 hours.
2-ethylhexanoic acid, zirconium salt	Ministry of Employment and Labor
	(Republic of Korea, 1/2020). [Zirconium
	and compounds]
	STEL: 10 mg/m <sup>3</sup> , (as Zr) 15 minutes.
	TWA: 5 mg/m³, (as Zr) 8 hours.
2-ethylhexanoic acid cobalt(2+) salt	Ministry of Employment and Labor
	(Republic of Korea, 1/2020). [Cobalt and
	inorganic compounds]
	TWA: 0.02 mg/m <sup>3</sup> 8 hours.
ethylbenzene	Ministry of Employment and Labor
	(Republic of Korea, 1/2020).
	STEL: 125 ppm 15 minutes.
	TWA: 100 ppm 8 hours.
ethanol	Ministry of Employment and Labor
	(Republic of Korea, 1/2020).
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# Section 8. Exposure controls/personal protection

			TWA: 1000 ppm 8 hours.
	Recommended monitoring procedures	:	Reference should be made to appropriate monitoring standards. Reference to national guidance documents for methods for the determination of hazardous substances will also be required.
В.	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.
с.	Personal protective equip	om	ent
	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.
	Eye protection	:	Safety glasses with side shields.
	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.
	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.

# Section 9. Physical and chemical properties

The conditions of measurement of all properties are at standard temperature and pressure unless otherwise indicated.

Α.	Appearance		
	Physical state	:	Liquid.
	Color	:	White.
В.	Odor	:	Aromatic.
			Not available.

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# Section 9. Physical and chemical properties

## C. Odor threshold

D. pH

I. –

- : Not applicable.
- E. Melting/freezing point : Not available.

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- : >37.78°C (>100°F) F. Boiling point/boiling range
- G. Flash point
- : Closed cup: 29.2°C (84.6°F)
- H. Evaporation rate
- : Not available.
- Flammability (solid, gas) : Not available. J. Lower and upper
- explosive (flammable) limits ...
- : Øreatest known range: Lower: 1.4% Upper: 7.6% (Naphtha (petroleum), hydrodesulfurized heavy)

K.	Vapor pressure	1		Vapo	r Pressu	re at 20°C	Va	por press	ure at 50°C
			Ingredient name	mm Hg	kPa	Method	mm Hg	kPa	Method
			xylene	6.7	0.89				
L.	Solubility(ies)		Media	Re	sult	<u>!</u>			
	, (, <b>)</b>		old water	No	t soluble				
	Solubility in water	:	Not available.						
М.	Vapor density	:	Not available.						
N.	Relative density	:	1.05						
0.	Partition coefficient: n- octanol/water	1	Not applicable.						
Ρ.	Auto-ignition temperature	1							
			Ingredient name		°C	°F		Method	
			<mark>M</mark> aphtha (petroleum), hydrodesulfurized heavy		280 to 4	70 536 to 8	878		
Q.	Decomposition temperature	:	Not available.						
R.	Viscosity	:	Kinematic (40°C (10	4°F)): >21	mm²/s (	>21 cSt)			
к.	Flow time (ISO 2431)	:	Not available.						
	Molecular weight		Not applicable						

S.

Molecular weight : Not applicable.

## Section 10. Stability and reactivity

Α.	Chemical stability Possibility of hazardous reactions		The product is stable. Under normal conditions of storage and use, hazardous reactions will not occur.
В.	Conditions to avoid	:	When exposed to high temperatures may produce hazardous decomposition

products.

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Section 10. Stability and read	tivity	
C. Incompatible materials : Keep away fro	m the following materials to prevent strong exotherr	nic reactions:

			oxidizing agents, strong alkalis, strong acids.		
D. Haza deco	rdous mposition products	:	Depending on conditions, decomposition products may include the following materials: carbon oxides metal oxide/oxides		

# Section 11. Toxicological information

A. Information on the likely routes of exposure	/ : Not available.
Potential acute health effe	<u>cts</u>
Inhalation :	Zan cause central nervous system (CNS) depression. May cause drowsiness or dizziness.
Ingestion :	🗭 an cause central nervous system (CNS) depression.
Skin contact :	Defatting to the skin. May cause skin dryness and irritation.
Eye contact :	No known significant effects or critical hazards.

### **Over-exposure signs/symptoms**

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
Ingestion	<ul> <li>Adverse symptoms may include the following: reduced fetal weight increase in fetal deaths skeletal malformations</li> </ul>
Skin contact	<ul> <li>Adverse symptoms may include the following: irritation dryness cracking reduced fetal weight increase in fetal deaths skeletal malformations</li> </ul>
Eye contact	: No specific data.

#### **B. Health hazards**

### Acute toxicity

Product/ingredient name	Result	<b>Species</b>	Dose	Exposure
Maphtha (petroleum), hydrodesulfurized	LD50 Oral	Rat	>5000 mg/kg	-
heavy				
Naphtha	LC50 Inhalation Vapor	Rat	61 g/m³	4 hours
•	LD50 Oral	Rat	>5 g/kg	-
titanium dioxide	LC50 Inhalation Dusts and	Rat	>6.82 mg/l	4 hours
	mists		, C	
	LD50 Dermal	Rabbit	>5000 mg/kg	-
	LD50 Oral	Rat	>5000 mg/kg	-
2-ethylhexanoic acid	LD50 Dermal	Rat	>2000 mg/kg	-
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# Section 11. Toxicological information

	LD50 Oral	Rat	3640 mg/kg	-	
Xylene	LD50 Dermal	Rabbit	1.7 g/kg	-	
	LD50 Oral	Rat	4.3 g/kg	-	
2-ethylhexanoic acid, zirconium salt	LD50 Dermal	Rabbit	>5 g/kg	-	
-	LD50 Oral	Rat	>5 g/kg	-	
2-ethylhexanoic acid cobalt(2+) salt	LD50 Dermal	Rabbit	>5 g/kg	-	
	LD50 Oral	Rat	3129 mg/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	-	
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	-	

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

#### Irritation/Corrosion

Product/ingredient name	Result	Species	Score	Exposure	Observation
▼ylene	Skin - Moderate irritant	Rabbit	-	24 hours 500 mg	-
Conclusion/Summary			•		•
Skin :	There are no data available	on the mixture i	tself.		
Eyes :	There are no data available	on the mixture i	tself.		
Respiratory :	There are no data available	on the mixture i	tself.		
Sensitization         Conclusion/Summary         Skin       : There are no data available on the mixture itself.         Respiratory       : There are no data available on the mixture itself.					
<u>Mutagenicity</u> Conclusion/Summary :	There are no data available c	on the mixture it	self.		
<u>Carcinogenicity</u> Conclusion/Summary :	There are no data available o	on the mixture i	tself.		
Reproductive toxicity Conclusion/Summary :	There are no data available	on the mixture i	itself.		
<u>Teratogenicity</u> Conclusion/Summary :	There are no data available	on the mixture i	itself.		

#### Specific target organ toxicity (single exposure)

Name	Classification	Route of exposure	Target organs
Maphtha (petroleum), hydrodesulfurized heavy Talc , not containing asbestiform fibres	Category 3 Category 3	-	Narcotic effects Respiratory tract irritation
Xylene	Category 3		Narcotic effects

## Section 11. Toxicological information

Specific target organ toxicity (repeated exposure)

Name	Classification	Route of exposure	Target organs
Maphtha (petroleum), hydrodesulfurized heavy Xylene	Category 1 Category 1		central nervous system (CNS) central nervous
			system (CNS), kidneys, liver

#### **Aspiration hazard**

Name	Result
Naphtha	ASPIRATION HAZARD - Category 1 ASPIRATION HAZARD - Category 1 ASPIRATION HAZARD - Category 1

#### Potential chronic health effects

- 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.
- : May cause cancer. Risk of cancer depends on duration and level of exposure.
- : May cause genetic defects.

Mutagenicity Reproductive toxicity

: May damage fertility or the unborn child.

### **Additional information**

Carcinogenicity

Folonged 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. Avoid contact with skin and clothing.

Chemical name	Identifiers	GHS Classification		
Maphtha (petroleum), hydrodesulfurized heavy	CAS: 64742-82-1	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		
		AQUATIC HAZARD (LONG-TERM) - Category 2		
Naphtha	CAS: 8030-30-6	FLAMMABLE LIQUIDS - Category 3		
		GERM CELL MUTAGENICITY - Category 1B		
		CARCINOGENICITY - Category 1B		
	0.00 40400 07 7	ASPIRATION HAZARD - Category 1		
titanium dioxide	CAS: 13463-67-7	CARCINOGENICITY - Category 2		
Talc , not containing asbestiform fibres	CAS: 14807-96-6	SPECIFIC TARGET ORGAN TOXICITY (SINGLE		
		EXPOSURE) (Respiratory tract irritation) -		
	040.440.57.5	Category 3		
2-ethylhexanoic acid	CAS: 149-57-5	TOXIC TO REPRODUCTION - Category 1B		
Xylene	CAS: 1330-20-7	FLAMMABLE LIQUIDS - Category 3		
		ACUTE TOXICITY (dermal) - Category 4		
		ACUTE TOXICITY (inhalation) - Category 4 SKIN IRRITATION - Category 2		
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Section 11. Toxicologic	al information	
2-ethylhexanoic acid, zirconium salt 2-ethylhexanoic acid cobalt(2+) salt	CAS: 22464-99-9 CAS: 136-52-7	EYE IRRITATION - Category 2A SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Narcotic effects) - Category 3 SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) - Category 1 TOXIC TO REPRODUCTION - Category 1B SKIN IRRITATION - Category 2 RESPIRATORY SENSITIZATION - Category 1 SKIN SENSITIZATION - Category 1 GERM CELL MUTAGENICITY - Category 2 CARCINOGENICITY - Category 1B TOXIC TO REPRODUCTION - Category 1B
ethylbenzene	CAS: 100-41-4	AQUATIC HAZARD (ACUTE) - Category 1 AQUATIC HAZARD (LONG-TERM) - Category 1 FLAMMABLE LIQUIDS - Category 2 ACUTE TOXICITY (inhalation) - Category 4 CARCINOGENICITY - Category 2 ASPIRATION HAZARD - Category 1
calcium bis(2-ethylhexanoate) ethanol	CAS: 136-51-6 CAS: 64-17-5	AQUATIC HAZARD (LONG-TERM) - Category 3 SERIOUS EYE DAMAGE - Category 1 TOXIC TO REPRODUCTION - Category 1B FLAMMABLE LIQUIDS - Category 2 EYE IRRITATION - Category 2A CARCINOGENICITY - Category 2

# Section 12. Ecological information

## A. <u>Ecotoxicity</u>

Product/ingredient name	Result	Species	Exposure
titanium dioxide	Acute LC50 >100 mg/l Fresh water	Daphnia - Daphnia magna	48 hours
2-ethylhexanoic acid,	Acute LC50 >100 mg/l	Fish	96 hours
zirconium salt			
ethylbenzene	Acute EC50 1.8 mg/l Fresh water	Daphnia	48 hours
	Chronic NOEC 1 mg/l Fresh water	Daphnia - Ceriodaphnia dubia	-
ethanol	Acute EC50 7640 mg/l Fresh water	Daphnia - Daphnia magna	48 hours

## B. Persistence and degradability

Product/ingredient name	Test	Result		Dose		Inoculum
ethylbenzene	-	79 % - Rea	adily - 10 days	-		-
Product/ingredient name	Aquatic half-life		Photolysis		Biodeg	radability
Kylene ethylbenzene ethanol	- -		-		Readily Readily Readily	

## C. Bioaccumulative potential

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# Section 12. Ecological information

Product/ingredient name	LogPow	BCF	Potential
ethylhexanoic acid	2.7	-	low
Xylene	3.12	7.4 to 18.5	low
ethylbenzene	3.6	79.43	low
ethanol	-0.35	-	low

## D. Mobility in soil

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

E. <u>Other adverse effects</u> : No known significant effects or critical hazards.

# Section 13. Disposal considerations

- A. 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.
- B. Disposal precautions
   This material and its container must be disposed of in a safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Vapor from product residues may create a highly flammable or explosive atmosphere inside the container. Do not cut, weld or grind used containers unless they have been cleaned thoroughly internally. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

# Section 14. Transport information

	UN	IMDG	ΙΑΤΑ
A. UN number	UN1263	UN1263	UN1263
B. UN proper shipping name	PAINT	PAINT	PAINT
C. Transport hazard class(es)	3	3	3
D. Packing group	III	III	III
Environmental hazards	No.	No.	No.
E. Marine pollutant substances	Not applicable.	Not applicable.	Not applicable.

### Additional information

UN

: None identified.

## Section 14. Transport information

IMDG IATA : None identified.

: None identified.

# F. Special precaution which a user to be aware of or needs to comply with in connection with transport or transportation

**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

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Α.	Regulation according to IS	<u>SHA</u>
	ISHA article 117 (Harmful substances prohibited from manufacture)	: None of the components are listed.
	ISHA article 118 (Harmful substances requiring permission)	: None of the components are listed.
	Article 2 of Youth Protection Act on Substances Hazardous to Youth	: It is not allowed to sell to persons under the age of 19.
	Exposure Limits of Chemi	ical Substances and Physical Factors
	The following components Maphtha titanium dioxide Talc, not containing asbes 2-ethylhexanoic acid Xylene 2-ethylhexanoic acid, zirco 2-ethylhexanoic acid cobal ethylbenzene ethanol	have an OEL: stiform fibres nium salt
	ISHA Enforcement Regs Annex 19 (Exposure standards established for harmful factors)	: Phe following components are listed: cobalt and its inorganic compounds
	ISHA Enforcement Regs Annex 21 (Harmful factors subject to Work Environment Measurement)	: The following components are listed: titanium dioxide, talc / soapstone, xylene
	ISHA Enforcement Regs Annex 22 (Harmful Factors Subject to Special Health Check- up)	: ₱he following components are listed: Coal tar, Xylene

# Section 15. Regulatory information

-	Standard of Industrial Safety and Health Annex 12 (Hazardous substances subject to control)	:	The following components are listed: titanium dioxide, xylene	
B. Regulation according to Chemicals Control Act				
	Article 11 (TRI)	:	The following components are listed: Naphtha, Xylene including o-,m-,p- isomer, Cobalt and its compounds, Ethylbenzene	
	Article 18 Prohibited (K- Reach Article 27)	1	None of the components are listed.	
	Article 19 Subject to authorization (K-Reach Article 25)	:	None of the components are listed.	
	Article 20 Restricted (K- Reach Article 27)	:	None of the components are listed.	
	Article 20 Toxic Chemicals (K-Reach Article 20)	:	Toxic	
	Korea inventory	1	🕅 components are listed or exempted.	
	Article 39 (Accident Precaution Chemicals)	1	None of the components are listed.	
C.	Dangerous Materials Safety Management Act	:	Class: Class 4 - Flammable Liquid Item: 4. Class 2 petroleums - Water-insoluble liquid Threshold: 1000 L Danger category: III Signal word: Contact with sources of ignition prohibited	
D.	Wastes regulation	1	Dispose of contents and container in accordance with all local, regional, national and international regulations.	
Ε.	Regulation according to e	o other foreign laws		
	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

A. References	<ul> <li>Korean Ministry of Environment; Chemical Control Act Korean Ministry of Labor; Industrial Safety and Health Act NIER Notice Registry of Toxic Effects of Chemical Substances (RTECS) U.S. Environmental Protection Agency, AQUIRE (Aquatic toxicity Information Retrieval) ECOTOX Database System.</li> </ul>
B. Date of issue/Date of revision	: 6/1/2023
C. Version	: 19
Prepared by	: EHS
D. Other	

**✓** Indicates information that has changed from previously issued version.

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## Section 16. Other information

#### **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.