SAFETY DATA SHEET



Date of issue 9/11/2023 (month/day/year)

Version 14

Section 1. Chemical product and company identification

Α.	Product name	1	SIGMARINE 24 OFFWHITE 7001
	Product code	1	00192662

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

Product use Use of the substance/ mixture	Professional applications, Used by spraying.Coating.
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 Korea.MSDS@PPG.COM
Emergency telephone number:	: +82-52-210-8222

Section 2. Hazards identification

A. Hazard classification : FLAMMABLE LIQUIDS - Category 3 CARCINOGENICITY - Category 2 TOXIC TO REPRODUCTION - Category 1B 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

Hazard statements

- : M226 Flammable liquid and vapor. H351 - Suspected of causing cancer.
 - H360 May damage fertility or the unborn child.
 - H372 Causes damage to organs through prolonged or repeated exposure. (central nervous system (CNS))

H411 - Toxic to aquatic life with long lasting effects.

Precautionary statements

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Section 2. Hazards identification

	Prevention		 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. P241 - Use explosion-proof electrical, ventilating or lighting equipment. P242 - Use non-sparking tools. P243 - Take action to prevent static discharges. P273 - Avoid release to the environment. P260 - Do not breathe vapor. P270 - Do not eat, drink or smoke when using this product.
	Response	:	P391 - Collect spillage. P308 + P313 - IF exposed or concerned: Get medical advice or attention.
	Storage	1	P403 + P235 - Store in a well-ventilated place. Keep cool.
	Disposal	:	P501 - Dispose of contents and container in accordance with all local, regional, national and international regulations.
•	Other hazards which do	:	Prolonged or repeated contact may dry skin and cause irritation.

С

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		
titanium dioxide	TITANIUM DIOXIDE	CAS: 13463-67-7	10 -<20
Naphtha (petroleum), hydrotreated heavy	NAPHTHA (PETROLEUM);	CAS: 64742-48-9	5 - <10
	HYDROTREATED HEAVY		
nonane	NONANE	CAS: 111-84-2	1 - <5
trizinc bis(orthophosphate)	ZINC ORTHOPHOSPHATE	CAS: 7779-90-0	0.1 - <1
calcium bis(2-ethylhexanoate)	2-ETHYL-HEXANOIC ACID;CALCIUM	CAS: 136-51-6	0.1 - <1
	SALT		
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

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

A. 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.

B. 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.

Section 4. First aid measures

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

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Α.	Extinguishing media		
	Suitable extinguishing media	:	Use dry chemical, CO ₂ , water spray (fog) or foam.
	Unsuitable extinguishing media	:	Do not use water jet.
в.	Specific hazards arising from the chemical	:	Flammable liquid and vapor. Runoff to sewer may create fire or explosion hazard. In a fire or if heated, a pressure increase will occur and the container may burst, with the risk of a subsequent explosion. This material is toxic to aquatic life with long lasting effects. Fire water contaminated with this material must be contained and prevented from being discharged to any waterway, sewer or drain.
	Hazardous thermal decomposition products	:	Decomposition products may include the following materials: carbon oxides metal oxide/oxides
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.
	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.
1			

Section 6. Accidental release measures

protective equipment and emergency procedures No f Prov	ction shall be taken involving any personal risk or without suitable training. cuate surrounding areas. Keep unnecessary and unprotected personnel from ring. Do not touch or walk through spilled material. Shut off all ignition sources. ares, smoking or flames in hazard area. Avoid breathing vapor or mist. ide adequate ventilation. Wear appropriate respirator when ventilation is equate. Put on appropriate personal protective equipment.
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Section 6. Accidental release measures

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

Section 7. Handling and storage

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

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

B. Conditions for safe storage, including any incompatibilities
 Store between the following temperatures: 0 to 35°C (32 to 95°F). Store in accordance with local regulations. Store in a segregated and approved area. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Store locked up. Eliminate all ignition sources. Separate from oxidizing materials. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.

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Section 8. Exposure controls/personal protection

A. Occupational exposure limits

	Ingredient name			Exposure limits
	Manium dioxide nonane			Ministry of Employment and Labor (Republic of Korea, 1/2020). TWA: 10 mg/m ³ 8 hours. Form: total dust with less than 1% of free SiO2 Ministry of Employment and Labor
				(Republic of Korea, 1/2020).
	2-ethylhexanoic acid, zirco	niu	m salt	TWA: 200 ppm 8 hours. Ministry of Employment and Labor (Republic of Korea, 1/2020). [Zirconium and compounds as Zr] STEL: 10 mg/m ³ , (as Zr) 15 minutes.
	2-ethylhexanoic acid cobal	t(2	+) salt	TWA: 5 mg/m ³ , (as Zr) 8 hours. Ministry of Employment and Labor (Republic of Korea, 1/2020). [Cobalt and inorganic compounds] TWA: 0.02 mg/m ³ 8 hours.
	Recommended monitoring procedures	:		iate monitoring standards. Reference to ods for the determination of hazardous
3.	Appropriate engineering controls	:	contaminants below any recommende	ls to keep worker exposure to airborne d or statutory limits. The engineering controls concentrations below any lower explosive
	Environmental exposure controls	:		
).	Personal protective equip	m	ent	
	Respiratory protection Eye protection		hazards of the product and the safe w workers are exposed to concentration appropriate, certified respirators. Use	n known or anticipated exposure levels, the vorking limits of the selected respirator. If is above the exposure limit, they must use a properly fitted, air-purifying or air-fed d standard if a risk assessment indicates this i
	Hand protection	:	be worn at all times when handling ch this is necessary. Considering the pa check during use that the gloves are s should be noted that the time to break	s complying with an approved standard should emical products if a risk assessment indicates rameters specified by the glove manufacturer still retaining their protective properties. It athrough for any glove material may be rers. In the case of mixtures, consisting of the of the gloves cannot be accurately

Section 8. Exposure controls/personal protection

Gloves	: For prolonged or repeated handling, use the following type of gloves:
	Recommended: nitrile rubber
Body protection	: Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product. When there is a risk of ignition from static electricity, wear anti-static protective clothing. For the greatest protection from static discharges, clothing should include anti-static overalls, boots and gloves.
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		Off-white.						
В.	Odor	:	Aromatic. [Strong]						
С.	Odor threshold	:	Not available.						
D.	рН	:	Not applicable.						
Ε.	Melting/freezing point	:	Not available.						
F.	Boiling point/boiling range	:	>37.78°C (>100°F)						
G.	Flash point	1	Closed cup: 40°C (10	04°F)					
Н.	Evaporation rate	:	Not available.						
1.	Flammability (solid, gas)	:	Not available.						
							N I I 41	/	
J.	Lower and upper explosive (flammable) limits	:	Greatest known rang hydrodesulfurized he		1.4% U	Ipper: 7.6% (Naphtha	(petroleu	m),
J.	explosive (flammable)	:		avy)		Ipper: 7.6% (Ire at 20°C			m), sure at 50°C
J.	explosive (flammable) limits			avy)	r Pressu				
J.	explosive (flammable) limits		hydrodesulfurized he	avy) Vapor	r Pressu kPa	ire at 20°C	Var mm	oor press	sure at 50°C
J.	explosive (flammable) limits Vapor pressure		hydrodesulfurized he Ingredient name Naphtha (petroleum),	avy) Vapor mm Hg 3.7503075	r Pressu kPa	ire at 20°C	Var mm	oor press	sure at 50°C
J.	explosive (flammable) limits		hydrodesulfurized he Ingredient name Naphtha (petroleum), hydrodesulfurized heavy	avy) Vapor mm Hg 3.7503075 Re	r Pressu kPa 0.5	re at 20°C Method	Var mm	oor press	sure at 50°C
J.	explosive (flammable) limits Vapor pressure	:	hydrodesulfurized he Ingredient name Naphtha (petroleum), hydrodesulfurized heavy Media	avy) Vapor mm Hg 3.7503075 Re	r Pressu kPa 0.5 sult	re at 20°C Method	Var mm	oor press	sure at 50°C
J. K. L.	explosive (flammable) limits Vapor pressure Solubility(ies)	: : : :	hydrodesulfurized he Ingredient name Naphtha (petroleum), hydrodesulfurized heavy Media cold water	avy) Vapor mm Hg 3.7503075 Re	r Pressu kPa 0.5 sult	re at 20°C Method	Var mm	oor press	sure at 50°C
J.	explosive (flammable) limits Vapor pressure Solubility(ies) Solubility in water	: : : : :	hydrodesulfurized he Ingredient name Naphtha (petroleum), hydrodesulfurized heavy Media cold water Not available.	avy) Vapor mm Hg 3.7503075 Re	r Pressu kPa 0.5 sult	re at 20°C Method	Var mm	oor press	sure at 50°C

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Section 9. Physical and chemical properties

Ρ.	Auto-ignition temperature	: 235°C (455°F)
Q.	Decomposition temperature	: Not available.
R.	Viscosity	: Kinematic (40°C (104°F)): >21 mm²/s (>21 cSt)
к.	Flow time (ISO 2431)	: Not available.
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.
C.	Incompatible materials	:	' Keep away from the following materials to prevent strong exothermic reactions: oxidizing agents, strong alkalis, strong acids.
D.	Hazardous decomposition products	:	Depending on conditions, decomposition products may include the following materials: carbon oxides metal oxide/oxides

Section 11. Toxicological information

Α.	Information on the likel routes of exposure	ly : Not available.
<u>P</u>	otential acute health effe	<u>ects</u>
	Inhalation	: No known significant effects or critical hazards.
	Ingestion	: No known significant effects or critical hazards.
	Skin contact	: Defatting to the skin. May cause skin dryness and irritation.
	Eye contact	: No known significant effects or critical hazards.
<u>0</u>	<u>)ver-exposure signs/sym</u>	<u>iptoms</u>
	Inhalation	: Adverse symptoms may include the following: 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
	Skin contact	: Adverse symptoms may include the following: irritation dryness cracking reduced fetal weight increase in fetal deaths skeletal malformations

Section 11. Toxicological information

Eye contact

: No specific data.

B. Health hazards

Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
Maphtha (petroleum), hydrodesulfurized	LD50 Oral	Rat	>5000 mg/kg	-
heavy titanium dioxide	LC50 Inhalation Dusts and	Rat	>6.82 mg/l	4 hours
	mists			
	LD50 Dermal	Rabbit	>5000 mg/kg	-
	LD50 Oral	Rat	>5000 mg/kg	-
Naphtha (petroleum), hydrotreated	LD50 Dermal	Rabbit	>5000 mg/kg	-
heavy				
	LD50 Oral	Rat	>6 g/kg	-
nonane	LC50 Inhalation Gas.	Rat	3200 ppm	4 hours
	LC50 Inhalation Vapor	Rat	16790 mg/m ³	4 hours
trizinc bis(orthophosphate)	LC50 Inhalation Dusts and	Rat	>5.7 mg/l	4 hours
	mists			
	LD50 Oral	Rat	>5000 mg/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	-

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

Irritation/Corrosion

<u>Conclusion/Summary</u> Skin Eyes Respiratory	 There are no data available on the mixture itself. There are no data available on the mixture itself. There are no data available on the mixture itself.
<u>Sensitization</u> <u>Conclusion/Summary</u> Skin Respiratory	There are no data available on the mixture itself.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.
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)

Section 11. Toxicological information

Name	Classification	Route of exposure	Target organs
Naphtha (petroleum), hydrodesulfurized heavy Naphtha (petroleum), hydrotreated heavy	Category 3 Category 3	-	Narcotic effects Respiratory tract irritation
nonane	Category 3	-	Narcotic effects

Specific target organ toxicity (repeated exposure)

Name	Classification	Route of exposure	Target organs
Naphtha (petroleum), hydrodesulfurized heavy	Category 1		central nervous system (CNS)

Aspiration hazard

Name	Result
Naphtha (petroleum), hydrodesulfurized heavy	ASPIRATION HAZARD - Category 1
Naphtha (petroleum), hydrotreated heavy	ASPIRATION HAZARD - Category 1
nonane	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.
Carcinogenicity	: Suspected of causing cancer. Risk of cancer depends on duration and level of exposure.
Mutagenicity Reproductive toxicity	 No known significant effects or critical hazards. May damage fertility or the unborn child.

Additional information

Prolonged 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
Naphtha (petroleum), hydrodesulfurized heavy	CAS: 64742-82-1	FLAMMABLE LIQUIDS - Category 4
titanium dioxide Naphtha (petroleum), hydrotreated heavy	CAS: 13463-67-7 CAS: 64742-48-9	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 CARCINOGENICITY - Category 2 FLAMMABLE LIQUIDS - Category 4 EYE IRRITATION - Category 2A SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Respiratory tract irritation) - Category 3
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Section 11. Toxicological information

	-	-
		ASPIRATION HAZARD - Category 1
nonane	CAS: 111-84-2	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
		AQUATIC HAZARD (ACUTE) - Category 1
		AQUATIC HAZARD (LONG-TERM) - Category 1
trizinc bis(orthophosphate)	CAS: 7779-90-0	AQUATIC HAZARD (ACUTE) - Category 1
		AQUATIC HAZARD (LONG-TERM) - Category 1
calcium bis(2-ethylhexanoate)	CAS: 136-51-6	SERIOUS EYE DAMAGE - Category 1
		TOXIC TO REPRODUCTION - Category 1B
2-ethylhexanoic acid, zirconium salt	CAS: 22464-99-9	TOXIC TO REPRODUCTION - Category 1B
2-ethylhexanoic acid cobalt(2+) salt	CAS: 136-52-7	SKIN IRRITATION - Category 2
	0,101,100,02,1	RESPIRATORY SENSITIZATION - Category 1
		SKIN SENSITIZATION - Category 1
		GERM CELL MUTAGENICITY - Category 2
		CARCINOGENICITY - Category 1B
		TOXIC TO REPRODUCTION - Category 1B
		AQUATIC HAZARD (ACUTE) - Category 1
		AQUATIC HAZARD (ACOTE) - Category 1 AQUATIC HAZARD (LONG-TERM) - Category 1
		AGOATIC HAZAND (LONG-TERM) - Calegory T

Section 12. Ecological information

A. Ecotoxicity

Product/ingredient name	Result	Species	Exposure
titanium dioxide	Acute LC50 >100 mg/l Fresh water	Daphnia - <i>Daphnia magna</i>	48 hours
trizinc bis(orthophosphate)	Acute LC50 0.112 mg/l	Fish	96 hours
	Chronic NOEC 0.026 mg/l	Fish	30 days
2-ethylhexanoic acid, zirconium salt	Acute LC50 >100 mg/l	Fish	96 hours

B. Persistence and degradability

Not available.

C. Bioaccumulative potential

Product/ingredient name	LogPow	BCF	Potential
nonane	5.65	-	High

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

Additional information

IMDG

- UN : None identified.
 - : 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.

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 Product code 00192662

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Section 15. Regulatory information

Α.	Regulation according to ISHA		
	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	са	I Substances and Physical Factors
	The following components Manium dioxide nonane 2-ethylhexanoic acid, zirco 2-ethylhexanoic acid cobal	niu	um salt
	Annex 19 (Exposure standards established for harmful factors)		None of the components are listed.
	ISHA Enforcement Regs Annex 21 (Harmful factors subject to Work Environment Measurement)	:	The following components are listed: titanium dioxide
	ISHA Enforcement Regs Annex 22 (Harmful Factors Subject to Special Health Check- up)	:	None of the components are listed.
	Standard of Industrial Safety and Health Annex 12 (Hazardous substances subject to control)	:	The following components are listed: titanium dioxide
В.	Regulation according to C	he	emicals Control Act
	Article 11 (TRI)	:	None of the components are listed.
	Article 18 Prohibited (K- Reach Article 27)	:	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)	:	Not applicable

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Section 15. Regulatory information

_	Korea inventory	1	At least one component is not listed.
	Article 39 (Accident Precaution Chemicals)	:	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	:	Dispose of contents and container in accordance with all local, regional, national and international regulations.
Ε.	E. <u>Regulation according to other foreign laws</u>		
	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

Α.	References	 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.
В.	Date of issue/Date of revision	: 9/11/2023
C .	Version	: 14
	Prepared by	: EHS
D.	Other	

✓ Indicates information that has changed from previously issued version.

<u>Disclaimer</u>

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.