SAFETY DATA SHEET



Date of issue 4/12/2024 (month/day/year)

Version 2

Section 1. Chemical product and company identification

A. Product name
Product code: SIGMARINE ONE 648 WHITE
: 00475620

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:	: ⊮ 82-52-210-8331

Section 2. Hazards identification

A. Hazard classification : FLAMMABLE LIQUIDS - Category 4 EYE IRRITATION - Category 2A CARCINOGENICITY - Category 2 SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) - 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	: Warning
Hazard statements	: <mark>⊮</mark> 227 - Combustible liquid.
	H319 - Causes serious eye irritation.
	H351 - Suspected of causing cancer.
	H373 - May cause damage to organs through prolonged or repeated exposure.
	(central nervous system (CNS), kidneys, liver)

Precautionary statements

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. P260 - Do not breathe vapor.
Response	 P308 + P313 - IF exposed or concerned: Get medical advice or attention. P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P337 + P313 - If eye irritation persists: Get medical advice or attention.
Storage	: Not applicable.
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 classification	 Frolonged 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).

Section 3. Composition/information on ingredients

CAS number/other identifiers

~ ~ ~	
CAS	number

: Not applicable.

Chemical name	Common name	Identifiers	%
Distillates (petroleum), hydrotreated light	DISTILLATES (PETROLEUM), HYDROTREATED LIGHT	CAS: 64742-47-8	20 - <30
titanium dioxide	TITANIUM DIOXIDE	CAS: 13463-67-7	10 -<20
Naphtha (petroleum), hydrotreated heavy	NAPHTHA (PETROLEUM); HYDROTREATED HEAVY	CAS: 64742-48-9	10 -<20
Talc , not containing asbestiform fibres	Talc, non-asbestos form	CAS: 14807-96-6	1 - <5
Xylene	XYLENES	CAS: 1330-20-7	1 - <5
ethylbenzene	ETHYLBENZENE	CAS: 100-41-4	0.1 - <1
titanium dioxide (<10 microns)	TITANIUM DIOXIDE (<10 microns)	CAS: 13463-67-7	0.1 - <1
2-ethylhexan-1-ol	2-ETHYLHEXANOL	CAS: 104-76-7	0.1 - <1
propylidynetrimethanol	TRIMETHYLOLPROPANE	CAS: 77-99-6	0.1 - <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

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.

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Section 4. First aid measures

D.	Ingestion	:	If swallowed, seek medical advice immediately and show this container or label. Keep person warm and at rest. Do NOT induce vomiting.
Е.	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. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation.

See toxicological information (Section 11)

Section 5. Fire-fighting measures

Extinguishing media		
Suitable extinguishing media	1	Use dry chemical, CO ₂ , water spray (fog) or foam.
Unsuitable extinguishing media	-	Do not use water jet.
Specific hazards arising from the chemical	:	Combustible liquid. 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.
Hazardous thermal decomposition products	:	Decomposition products may include the following materials: carbon oxides nitrogen oxides metal oxide/oxides Formaldehyde.
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.
	media Unsuitable extinguishing media Specific hazards arising from the chemical Hazardous thermal decomposition products Special equipment for fire-fighting	Suitable extinguishing media:Unsuitable extinguishing media:Specific hazards arising from the chemical:Hazardous thermal decomposition products:Special equipment for fire-fighting:

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).

C. Methods and materials for containment and cleaning up

Section 6. Accidental release measures

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. Do not handle until all safety precautions have been read and understood. Do not get in eyes or on skin or clothing. Do not breathe vapor or mist. Do not ingest. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Do not enter storage areas and confined spaces unless adequately ventilated. Keep in the original container or an approved alternative made from a compatible material, kept 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. 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.

Section 8. Exposure controls/personal protection

A. Occupational exposure limits

Section 8. Exposure controls/personal protection

Ingredient name		Exposure limits
₱istillates (petroleum), hyd	rotreated light	ACGIH TLV (United States, 1/2023). [Kerosene as total hydrocarbon vapor] Absorbed through skin. TWA: 200 mg/m ³ , (as total hydrocarbon
titanium dioxide		vapor) 8 hours. Ministry of Employment and Labor (Republic of Korea, 1/2020). TWA: 10 mg/m ³ 8 hours. Form: total dust
Talc , not containing asbes	tiform fibres	with less than 1% of free SiO2 Ministry of Employment and Labor (Republic of Korea, 1/2020).
Xylene		TWA: 2 mg/m ³ 8 hours. Form: fibers Ministry of Employment and Labor (Republic of Korea, 1/2020). [Xylene (all isomers)]
ethylbenzene		STEL: 150 ppm 15 minutes. TWA: 100 ppm 8 hours. Ministry of Employment and Labor (Republic of Korea, 1/2020). STEL: 125 ppm 15 minutes.
titanium dioxide (<10 micro	ons)	TWA: 100 ppm 8 hours. Ministry of Employment and Labor (Republic of Korea, 1/2020). TWA: 10 mg/m ³ 8 hours. Form: total dust
2-ethylhexan-1-ol		with less than 1% of free SiO2 ACGIH TLV (United States, 1/2023). TWA: 5 ppm 8 hours.
Recommended monitoring procedures		ppropriate monitoring standards. Reference to methods for the determination of hazardous
Appropriate engineering controls	ventilation or other engineering of contaminants below any recomn	on. Use process enclosures, local exhaust controls to keep worker exposure to airborne nended or statutory limits. The engineering controls dust concentrations below any lower explosive ilation equipment.
Environmental exposure controls	they comply with the requiremen cases, fume scrubbers, filters or	rk process equipment should be checked to ensure ts of environmental protection legislation. In some engineering modifications to the process educe emissions to acceptable levels.
Personal protective equip	oment	
Respiratory protection	: Respirator selection must be ba hazards of the product and the workers are exposed to concen appropriate, certified respirators	sed on known or anticipated exposure levels, the safe working limits of the selected respirator. If trations above the exposure limit, they must use b. Use a properly fitted, air-purifying or air-fed proved standard if a risk assessment indicates this is
Eye protection	: Chemical splash goggles.	

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Section 8. Exposure controls/personal protection

Hand protection	: Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated.
Gloves	 For prolonged or repeated handling, use the following type of gloves: Recommended: polyvinyl alcohol (PVA), Viton® May be used: nitrile rubber
	5
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.
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	:	Not available.						
В.	Odor	:	Characteristic.						
С.	Odor threshold	:	Not available.						
D.	рН	:	Not applicable.						
Ε.	Melting/freezing point	1	Not available.						
F.	Boiling point/boiling range	:	>37.78°C (>100°F)						
G.	Flash point	1	Closed cup: 63°C (14	45.4°F)					
н.	Evaporation rate	:	Not available.						
Т.	Flammability (solid, gas)	:	Not available.						
J.	Lower and upper explosive (flammable) limits	:	Greatest known rang hydrotreated heavy)	je: Lower:	1.4% l	Jpper: 7.6% (I	Naphtha	(petroleu	m),
Κ.	Vapor pressure	:		Vapo	r Press	ure at 20°C	Va	por press	sure 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>			
			cold water	Nc	t soluble	e			

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Section 9. Physical and chemical properties Solubility in water : Not available. Vapor density : Not available. Μ. **Relative density** : 1.08 Ν. Partition coefficient: n-: Not applicable. О. octanol/water **Auto-ignition** ÷. Ρ. temperature

			Ingredient name	°C	°F	Method
			Pístillates (petroleum), hydrotreated light	>220	>428	
Q.	Decomposition temperature	:	Not available.	-		
R.	Viscosity	:	Kinematic (40°C (104°F)): >21	mm²/s (>2	21 cSt)	
ĸ.	Flow time (ISO 2431)	:	Not available.			
S.	Molecular weight	:	Not applicable.			

Section 10. Stability and reactivity

		-	-
Α.	Chemical stability	1	The product is stable.
	Possibility of hazardous reactions	-	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.
С.	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 nitrogen oxides Formaldehyde. metal oxide/oxides

Section 11. Toxicological information

A. Information on the likely : Not available. routes of exposure

Potential acute health effects

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	: Causes serious eye irritation.			
Over-exposure signs/symptoms				
Inhalation	: No specific data.			

	, ,
Ingestion	: No specific data.

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Section 11. Toxicological information

Skin conta

Skin contact	:	Adverse symptoms may include the following: irritation dryness cracking
Eye contact	:	Adverse symptoms may include the following: pain or irritation watering redness

B. Health hazards

Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
Manium 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 heavy	LD50 Dermal	Rabbit	>5000 mg/kg	-
	LD50 Oral	Rat	>6 g/kg	-
Xylene	LD50 Dermal	Rabbit	1.7 g/kg	-
	LD50 Oral	Rat	4.3 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	-
titanium dioxide (<10 microns)	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-ethylhexan-1-ol	LC50 Inhalation Dusts and	Rat	2.17 mg/l	4 hours
	mists			
	LD50 Dermal	Rabbit	>3000 mg/kg	-
	LD50 Oral	Rat	2.05 g/kg	-
propylidynetrimethanol	LD50 Dermal	Rabbit	10 g/kg	-
	LD50 Oral	Rat	14000 mg/kg	-

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

Irritation/Corrosion

Product/ingredient name	Result	Species	Score	Exposure	Observation
Xylene	Skin - Moderate irritant	Rabbit	-	24 hours 500 mg	-
Conclusion/Summary		•			

o data available on the mixture itself.
1

Eyes Respiratory : There are no data available on the mixture itself.

: There are no data available on the mixture itself.

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

Mutagenicity

Skin

Section 11. Toxicological information

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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)

Name	Classification	Route of exposure	Target organs
Naphtha (petroleum), hydrotreated heavy	Category 3	-	Respiratory tract irritation
Talc , not containing asbestiform fibres	Category 3	-	Respiratory tract irritation
Xylene	Category 3	-	Narcotic effects
2-ethylhexan-1-ol	Category 3	-	Respiratory tract irritation

Specific target organ toxicity (repeated exposure)

Name	Classification	Route of exposure	Target organs
Xylene	Category 1		central nervous system (CNS), kidneys, liver
2-ethylhexan-1-ol	Category 2	-	-

Aspiration hazard

Name	Result
✓istillates (petroleum), hydrotreated light	ASPIRATION HAZARD - Category 1
Naphtha (petroleum), hydrotreated heavy	ASPIRATION HAZARD - Category 1
ethylbenzene	ASPIRATION HAZARD - Category 1

Potential chronic health effects

General	: May cause damage to organs through prolonged or repeated exposure. Prolonged or repeated contact can defat the skin and lead to irritation, cracking and/or dermatitis.
Carcinogenicity	: Suspected of causing cancer. Risk of cancer depends on duration and level of exposure.
Mutagenicity	: No known significant effects or critical hazards.
Reproductive toxicity	: No known significant effects or critical hazards.

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Section 11. Toxicological information

Folonged or repeated contact may dry skin and cause irritation. 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.

Chemical name	Identifiers	GHS Classification
♥istillates (petroleum), hydrotreated light	CAS: 64742-47-8	CARCINOGENICITY - Category 2
		ASPIRATION HAZARD - Category 1
titanium dioxide	CAS: 13463-67-7	CARCINOGENICITY - Category 2
Naphtha (petroleum), hydrotreated heavy	CAS: 64742-48-9	FLAMMABLE LIQUIDS - Category 4
		EYE IRRITATION - Category 2A
		SPECIFIC TARGET ORGAN TOXICITY (SINGLE
		EXPOSURE) (Respiratory tract irritation) -
		Category 3
		ASPIRATION HAZARD - Category 1
Talc , not containing asbestiform fibres	CAS: 14807-96-6	SPECIFIC TARGET ORGAN TOXICITY (SINGLE
	0/10. 14007 00 0	EXPOSURE) (Respiratory tract irritation) -
		Category 3
Xylene	CAS: 1330-20-7	FLAMMABLE LIQUIDS - Category 3
Xylene	CAS. 1330-20-7	ACUTE TOXICITY (dermal) - Category 4
		ACUTE TOXICITY (inhalation) - Category 4
		SKIN IRRITATION - Category 2
		EYE IRRITATION - Category 2A
		SPECIFIC TARGET ORGAN TOXICITY (SINGLE
		EXPOSURE) (Narcotic effects) - Category 3
		SPECIFIC TARGET ORGAN TOXICITY
<i>a</i> n		(REPEATED EXPOSURE) - Category 1
ethylbenzene	CAS: 100-41-4	FLAMMABLE LIQUIDS - Category 2
		ACUTE TOXICITY (inhalation) - Category 4
		CARCINOGENICITY - Category 2
		ASPIRATION HAZARD - Category 1
		AQUATIC HAZARD (LONG-TERM) - Category 3
titanium dioxide (<10 microns)	CAS: 13463-67-7	CARCINOGENICITY - Category 2
2-ethylhexan-1-ol	CAS: 104-76-7	FLAMMABLE LIQUIDS - Category 4
		ACUTE TOXICITY (inhalation) - Category 4
		SKIN IRRITATION - Category 2
		EYE IRRITATION - Category 2A
		CARCINOGENICITY - Category 2
		SPECIFIC TARGET ORGAN TOXICITY (SINGLE
		EXPOSURE) (Respiratory tract irritation) -
		Category 3
		SPEČIFÍC TARGET ORGAN TOXICITY
		(REPEATED EXPOSURE) - Category 2
propylidynetrimethanol	CAS: 77-99-6	TOXIC TO REPRODUCTION - Category 2
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Section 12. Ecological information

A. Ecotoxicity

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Section 12. Ecological information

Product/ingredient name	Result	Species	Exposure
Manium dioxide ethylbenzene	Acute LC50 >100 mg/l Fresh water Acute EC50 1.8 mg/l Fresh water Chronic NOEC 1 mg/l Fresh water	Daphnia - <i>Daphnia magna</i> Daphnia Daphnia - <i>Ceriodaphnia dubia</i>	48 hours 48 hours -
titanium dioxide (<10 microns)	Acute LC50 >100 mg/l Fresh water	Daphnia - <i>Daphnia magna</i>	48 hours
2-ethylhexan-1-ol propylidynetrimethanol	Acute LC50 28.2 mg/l Acute LC50 >1000 mg/l	Fish Fish	96 hours 96 hours

B. Persistence and degradability

Product/ingredient name	Test	Result		Dose		Inoculum
ethylbenzene 2-ethylhexan-1-ol	- OECD 301C		adily - 10 days adily - 14 days	-		-
Product/ingredient name	Aquatic half-life		Photolysis		Biodeg	gradability
Distillates (petroleum), hydrotreated light Xylene ethylbenzene 2-ethylhexan-1-ol	- - -		- - -		Readily Readily Readily Readily	,

C. Bioaccumulative potential

Product/ingredient name	LogPow	BCF	Potential
₱istillates (petroleum), hydrotreated light	-	159	Low
Xylene	3.12	7.4 to 18.5	Low
ethylbenzene	3.6	79.43	Low
2-ethylhexan-1-ol	2.9	-	Low
propylidynetrimethanol	-0.47	-	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.

- Section 13. Disposal considerations
- 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	Not regulated.	Not regulated.	Not regulated.
B. UN proper shipping name	-	-	-
C. Transport hazard class(es)	-	-	-
D. Packing group	-	-	-
Environmental hazards	No.	No.	No.
E. Marine pollutant substances	Not applicable.	Not applicable.	Not applicable.

Additional information

- UN: None identified.IMDG: None identified.
- IATA : 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

A. 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.

Product name SIGMARINE ONE 648 WHITE

Section 15. Regulatory information

	0		
	2 of Youth Protection Substances Hazardous h	:	It is not allowed to sell to persons under the age of 19.
<u>Expos</u>	ure Limits of Chem	nica	Il Substances and Physical Factors
Distil titani Talc Xyler ethyl titani	ollowing components lates (petroleum), hy um dioxide , not containing asbe ne benzene um dioxide (<10 micu ylhexan-1-ol	drc stif	treated light orm fibres
Annex stand for ha	Enforcement Regs (19 (Exposure ards established rmful factors) Enforcement Regs		None of the components are listed.
Annex factor Envir	x 21 (Harmful s subject to Work onment urement)	:	The following components are listed: titanium dioxide, talc / soapstone, xylene
Annex Facto	Enforcement Regs c 22 (Harmful rs Subject to al Health Check-	:	The following components are listed: Xylene
Safety Annex	ard of Industrial and Health 12 (Hazardous ances subject to bl)	:	The following components are listed: titanium dioxide, xylene
B. <u>Regul</u>	ation according to	<u>Ch</u>	emicals Control Act
Article	e 11 (TRI)	:	The following components are listed: Xylene including o-,m-,p- isomer, Ethylbenzene
Reach	Article 27)		None of the components are listed.
	e 19 Subject to rization (K-Reach e 25)	:	None of the components are listed.
	e 20 Restricted (K- Article 27)	1	None of the components are listed.
	e 20 Toxic icals (K-Reach e 20)	:	Not applicable
Korea	inventory	:	🗚 least one component is not listed.
	e 39 (Accident ution Chemicals)	:	None of the components are listed.

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Section 15. Regulatory information

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.	Regulation according to o	lation according to 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

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	: 4/12/2024
С.	Version	: 2
	Prepared by	: EHS

D. Other

Indicates information that has changed from previously issued version.

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