# SAFETY DATA SHEET

SIGMAGUARD 720 BASE WHITE



#### Date of issue 4 September 2024

Version 3

## 1. Product and company identification

Product name	: SIGMAGUARD 720 BASE WHITE	
Product code	: 00474137	
Product type	: Liquid.	
Relevant identified us	ses of the substance or mixture and uses advised against	
Product use	: Professional applications, Used by spraying.	

Product use	Professional applications, Used by spraying.
Use of the substance/ mixture	: 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 number	: 078 574 2777

## 2. Hazards identification

GHS Classification	: FLAMMABLE LIQUIDS - Category 2 SKIN IRRITATION - Category 2 EYE IRRITATION - Category 2A SKIN SENSITIZATION - Category 1 GERM CELL MUTAGENICITY - Category 2 CARCINOGENICITY - Category 1A TOXIC TO REPRODUCTION - Category 1B SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) - Category 1 SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) - Category 1 HAZARDOUS TO THE AQUATIC ENVIRONMENT - ACUTE HAZARD - Category 2 HAZARDOUS TO THE AQUATIC ENVIRONMENT - CHRONIC HAZARD - Category 2
GHS label elements Hazard pictograms	
Signal word	: Danger
Hazard statements	: Highly flammable liquid and vapor. Causes skin irritation. May cause an allergic skin reaction. Causes serious eye irritation. Suspected of causing genetic defects. May cause cancer. May damage fertility or the unborn child.

#### 2. Hazards identification respiratory organs) Causes damage to organs through prolonged or repeated exposure. (hearing organs, immune system, kidneys, nervous system, respiratory organs) 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. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. 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. : Collect spillage. IF exposed or concerned: Call a POISON CENTER or doctor. IF Response 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. : Store locked up. **Storage** Disposal : Dispose of contents and container in accordance with all local, regional, national and international regulations. **Other hazards which do not** : Prolonged or repeated contact may dry skin and cause irritation. result in classification

### 3. Composition/information on ingredients

Substance/mixture

: Mixture

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

CAS number	: Not applicable.
CSCL number	: Not available.

Ingredient name	%	CAS number	CSCL
bis-[4-(2,3-epoxipropoxi)phenyl]propane	25 - <50	1675-54-3	4-209; 7-1279; 7-1283
Talc (containing no asbestos or quartz)	20 - <25	14807-96-6	Not available.
Crystalline silica (quartz)	15 - <20	14808-60-7	1-548
Titanium dioxide (excluding nanoparticle)	5 - <7	13463-67-7	1-558; 5-5225
Ethyl Benzene	5 - <7	100-41-4	3-28; 3-60
Xylene	3 - <5	1330-20-7	3-3; 3-60
Epoxy Resin (700 <mw<=1100)< td=""><td>3 - &lt;5</td><td>25036-25-3</td><td>Not available.</td></mw<=1100)<>	3 - <5	25036-25-3	Not available.
Phenol, styrenated	2 - <3	61788-44-1	4-198
isobutyl alcohol	2 - <3	78-83-1	2-3049
12-hydroxyoctadecanoic acid, reaction products with 1,3-benzenedimethanamine and hexamethylenediamine	1 - <2	220926-97-6	Not available.

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 necess	ary 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>

Potential acute health effe	<u>cts</u>	
Eye contact	:	Causes serious eye irritation.
Inhalation	1	No known significant effects or critical hazards.
Skin contact	:	Causes 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	1	Causes damage to organs following a single exposure if swallowed.
Over-exposure signs/symp	otom	<u>IS</u>
Eye contact	:	Adverse symptoms may include the following: pain or irritation watering redness
Inhalation	:	Adverse symptoms may include the following: 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 med	dica	l 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

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.
Specific hazards arising from the chemical	: Highly 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
Special protective actions for fire-fighters	: Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training. Move containers from fire area if this can be done without risk. Use water spray to keep fire-exposed containers cool.
Special protective equipment for fire-fighters	: Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

## 6. Accidental release measures

#### 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".
	: 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.
Methods and materials for co	ntainment 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

## 6. Accidental release measures

material may pose the same hazard as the spilled product. Note: see Section 1 for emergency contact information and Section 13 for waste disposal.

### 7. Handling and storage

**Precautions for safe** : Put on appropriate personal protective equipment (see Section 8). Persons with a history of skin sensitization problems should not be employed in any process in which handling 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. Use only non-sparking tools. Take precautionary measures against electrostatic discharges. Empty containers retain product residue and can be hazardous. Do not reuse container.

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**

Ingredient name	Exposure limits	
₩alc (containing no asbestos or quartz)	Japan Society for Occupational Health (Japan, 5/2023). [Class 1 dusts (Activated charcoal, Alumina, Aluminium, Bentonite, Diatomite, Graphite, Kaolinite, Pagodite, Pyrites, Pyrite cinder)] 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)	
Crystalline silica (quartz)	Japan Society for Occupational Health (Japan, 5/2023). [Respirable crystalline silica]	
Titanium dioxide (excluding nanoparticle)	OEL-C: 0.03 mg/m <sup>3</sup> Form: Respirable dust Japan Society for Occupational Health (Japan, 5/2023). [titanium dioxide] OEL-M: 1.5 mg/m <sup>3</sup> , (as Ti) 8 hours. Form: Respirable particulate matter OEL-M: 2 mg/m <sup>3</sup> , (as Ti) 8 hours. Form: Total particulate matter Japan Society for Occupational Health	
	Japan Page: 5/15	

## 8. Exposure controls/personal protection

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Ethyl Benzene		(Japan, 5/2023). [titanium dioxide (nanoparticle)] OEL-M: 0.3 mg/m <sup>3</sup> 8 hours. Form: nanoparticle Japan Society for Occupational Health (Japan, 5/2023). Absorbed through skin. OEL-M: 87 mg/m <sup>3</sup> 8 hours. OEL-M: 20 ppm 8 hours.
Xylene		Industrial Safety and Health Act (Japan, 6/2020). TWA: 20 ppm 8 hours. Industrial Safety and Health Act (Japan, 6/2020). [xylene]
		TWA: 50 ppm 8 hours. Japan Society for Occupational Health (Japan, 5/2023). OEL-M: 50 ppm 8 hours. OEL-M: 217 mg/m <sup>3</sup> 8 hours.
isobutyl alcohol		Japan Society for Occupational Health (Japan, 5/2023). OEL-M: 150 mg/m <sup>3</sup> 8 hours. OEL-M: 50 ppm 8 hours. Industrial Safety and Health Act (Japan, 6/2020).
		TWA: 50 ppm 8 hours.
Recommended monitoring procedures		riate monitoring standards. Reference to nods for the determination of hazardous
Appropriate engineering controls	or other engineering controls to keep below any recommended or statutory	se process enclosures, local exhaust ventilation worker exposure to airborne contaminants limits. The engineering controls also need to as below any lower explosive limits. Use
Environmental exposure controls	they comply with the requirements of	ocess equipment should be checked to ensure environmental protection legislation. In some neering modifications to the process equipment s to acceptable levels.
ndividual protection measu	res	
Hygiene measures	eating, smoking and using the lavator Appropriate techniques should be use Contaminated work clothing should no	bughly after handling chemical products, before y and at the end of the working period. ed to remove potentially contaminated clothing. of be allowed out of the workplace. Wash Ensure that eyewash stations and safety location.
Eye protection	: Chemical splash goggles.	
Skin protection		
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 through for any glove material may be rers. In the case of mixtures, consisting of ne of the gloves cannot be accurately
		Japan Page: 6/1

## 8. Exposure controls/personal protection

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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

Appearance			
Physical state	: Liquid.		
Odor	: Characteristic.		
Boiling point	: >37.78°C (>100°F)		
Flash point	: Closed cup: 20°C (68°F)		
Relative density	: 1.57		
Solubility(ies)	Media	Result	
Solubility(les)	. cold water	Not soluble	

## 10. Stability and reactivity

Reactivity	: No specific test data related to reactivity available for this product or its ingredients.
Chemical stability	: The product is stable.
Possibility of hazardous reactions	: Under normal conditions of storage and use, hazardous reactions will not occur.
Conditions to avoid	: When exposed to high temperatures may produce hazardous decomposition products.
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 metal oxide/oxides

Product name SIGMAGUARD 720 BASE WHITE

## **11. Toxicological information**

#### Information on toxicological effects

#### Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
øs-[4-(2,3-epoxipropoxi) phenyl]propane	LD50 Dermal	Rabbit	23000 mg/kg	-
	LD50 Oral	Rat	15000 mg/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	-
Ethyl Benzene	LC50 Inhalation Vapor	Rat	17.8 mg/l	4 hours
-	LD50 Dermal	Rabbit	17.8 g/kg	-
	LD50 Oral	Rat	3.5 g/kg	-
Xylene	LD50 Dermal	Rabbit	1.7 g/kg	-
	LD50 Oral	Rat	4.3 g/kg	-
Epoxy Resin (700 <mw &lt;=1100)</mw 	LD50 Dermal	Rat	>2000 mg/kg	-
	LD50 Oral	Rat	>2000 mg/kg	-
Phenol, styrenated	LD50 Dermal	Rabbit	>5010 mg/kg	-
	LD50 Oral	Rat	3550 mg/kg	-
isobutyl alcohol	LC50 Inhalation Vapor	Rat	24.6 mg/l	4 hours
	LD50 Dermal	Rabbit	2460 mg/kg	-
	LD50 Oral	Rat	2830 mg/kg	-
12-hydroxyoctadecanoic	LC50 Inhalation Dusts and mists	Rat	3.56 mg/l	4 hours
acid, reaction products with			-	
1,3-benzenedimethanamine and hexamethylenediamine				
-	LD50 Dermal	Rat	>2000 mg/kg	-
	LD50 Oral	Rat	>2000 mg/kg	-

#### Irritation/Corrosion

Product/ingredient name	Result	Species	Score	Exposure	Observation
Is-[4-(2,3-epoxipropoxi) phenyl]propane	Eyes - Mild irritant	Rabbit	-	24 hours	-
	Eyes - Redness of the conjunctivae	Rabbit	0.4	24 hours	-
	Skin - Edema	Rabbit	0.5	4 hours	-
	Skin - Erythema/Eschar	Rabbit	0.8	4 hours	-
	Skin - Mild irritant	Rabbit	-	4 hours	-
Xylene	Skin - Moderate irritant	Rabbit	-	24 hours 500 mg	-

#### **Sensitization**

••••••	Route of exposure	Species	Result
bis-[4-(2,3-epoxipropoxi) phenyl]propane	skin	Mouse	Sensitizing
Phenol, styrenated	skin	Mouse	Sensitizing

### **Mutagenicity**

Not available.

#### **Carcinogenicity**

Not available.

#### **Reproductive toxicity**

Not available.

## 11. Toxicological information

#### **Teratogenicity**

Not available.

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

Name	Category	Route of exposure	Target organs
Talc (containing no asbestos or quartz)	Category 1	-	respiratory organs
Ethyl Benzene	Category 3	-	Respiratory tract irritation
	Category 3		Narcotic effects
Xylene	Category 1	-	central nervous system (CNS), kidneys, liver, respiratory organs
	Category 3		Narcotic effects
isobutyl alcohol	Category 3	-	Respiratory tract irritation
	Category 3		Narcotic effects

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

Name	Category	Route of exposure	Target organs
Talc (containing no asbestos or quartz)	Category 1	-	respiratory organs
Crystalline silica (quartz)	Category 1	-	immune system, kidneys, respiratory organs
Titanium dioxide (excluding nanoparticle)	Category 1	-	respiratory organs
Ethyl Benzene	Category 1	-	hearing organs, nervous system
Xylene	Category 1	-	nervous system, respiratory organs
12-hydroxyoctadecanoic acid, reaction products with 1,3-benzenedimethanamine and hexamethylenediamine	Category 2	inhalation	lungs

#### Aspiration hazard

Name	Result
	ASPIRATION HAZARD - Category 1
Xylene	ASPIRATION HAZARD - Category 1

## Information on the likely routes of exposure

: Not available.

#### Potential acute health effects Eye contact : Causes serious eye irritation. Inhalation : No known significant effects or critical hazards. : Causes damage to organs following a single exposure in contact with skin. Causes Skin contact skin irritation. Defatting to the skin. May cause an allergic skin reaction. : Causes damage to organs following a single exposure if swallowed. Ingestion 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

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Inhalation	: Adverse symptoms may include the following: 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 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	<u>s</u>	
General	Causes damage to organs through prolonged or repeated exposure. Prolonger repeated contact can defat the skin and lead to irritation, cracking and/or derm Once sensitized, a severe allergic reaction may occur when subsequently export to very low levels.	natitis.
Carcinogenicity	May cause cancer. Risk of cancer depends on duration and level of exposure	؛.
Mutagenicity	Suspected of causing genetic defects.	
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)
GMAGUARD 720 BASE WHITE	30058.0	13569.0	N/A	109.8	348.0
bis-[4-(2,3-epoxipropoxi)phenyl]propane	15000	23000	N/A	N/A	N/A
Ethyl Benzene	3500	17800	N/A	17.8	N/A
Xylene	4300	1700	N/A	11	N/A
Epoxy Resin (700 <mw<=1100)< td=""><td>2500</td><td>2500</td><td>N/A</td><td>N/A</td><td>N/A</td></mw<=1100)<>	2500	2500	N/A	N/A	N/A
Phenol, styrenated	3550	N/A	N/A	N/A	N/A
isobutyl alcohol	2830	2460	N/A	11	N/A
12-hydroxyoctadecanoic acid, reaction products with 1,3-benzenedimethanamine and hexamethylenediamine	2500	2500	N/A	N/A	3.56

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### 11. Toxicological information

#### **Other 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.

## **12. Ecological information**

#### **Toxicity**

Product/ingredient name	Result	Species	Exposure
bis-[4-(2,3-epoxipropoxi) phenyl]propane	Acute LC50 1.8 mg/l Fresh water	Daphnia - <i>daphnia magna</i>	48 hours
	Chronic NOEC 0.3 mg/l	Daphnia	21 days
Titanium dioxide (excluding nanoparticle)	Acute LC50 >100 mg/l Fresh water	Daphnia - Daphnia magna	48 hours
Ethyl Benzene	Acute EC50 1.8 mg/l Fresh water	Daphnia	48 hours
	Chronic NOEC 1 mg/l Fresh water	Daphnia - Ceriodaphnia dubia	-
Phenol, styrenated	Acute EC50 3.8 mg/l	Daphnia	48 hours
isobutyl alcohol	Acute EC50 1100 mg/l	Daphnia	48 hours
12-hydroxyoctadecanoic acid, reaction products with 1,3-benzenedimethanamine and hexamethylenediamine	Acute EC50 >100 mg/l	Algae - Pseudokirchneriella subcapitata (microalgae)	72 hours
	Acute EC50 >100 mg/l	Daphnia - <i>Daphnia magna</i> (Water flea)	48 hours
	Acute LC50 >100 mg/l	Fish - Oncorhynchus mykiss (rainbow trout)	96 hours
	Chronic NOEC 100 mg/l	Algae - Pseudokirchneriella subcapitata	72 hours
	Chronic NOEC ≥50 mg/l	Daphnia - Daphnia magna (Water flea)	21 days

#### Persistence/degradability

Product/ingredient name	Test	Result		Dose		Inoculum
Ethyl Benzene Phenol, styrenated 12-hydroxyoctadecanoic acid, reaction products with 1,3-benzenedimethanamine and hexamethylenediamine	- OECD 301F OECD 301D Ready Biodegradability - Closed Bottle Test	79 % - Readily - 10 days 7 % - Not readily - 28 days 9 % - Not readily - 29 days		-		-
Product/ingredient name	Aquatic half-life		Photolysis		Biodeg	radability
øs-[4-(2,3-epoxipropoxi) phenyl]propane Ethyl Benzene Xylene Phenol, styrenated	- - -		- - -		Not rea Readily Readily Not rea	

#### **Bioaccumulative potential**

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### 12. Ecological information

Product/ingredient name	LogPow	BCF	Potential
Ethyl Benzene	3.6	79.43 7.4 to 19.5	Low
Xylene isobutyl alcohol	3.12 1	7.4 to 18.5 -	Low Low
12-hydroxyoctadecanoic	>6	-	High
acid, reaction products with 1,3-benzenedimethanamine			
and hexamethylenediamine			

<u>Mobility in soil</u>	
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	II	II	II	
Environmental hazards	Yes. The environmentally hazardous substance mark is not required.	Yes.	Yes. The environmentally hazardous substance mark is not required.	
Marine pollutant substances	Not applicable.	(bis-[4-(2,3-epoxipropoxi) phenyl]propane)	Not applicable.	

#### Additional information

Product coc Product nar	le 00474137       Date of issue 4 September 2024 Version 3         ne SIGMAGUARD 720 BASE WHITE
14. Trar	sport information
UN	: None identified.
IMDG : The marine pollutant mark is not required when transported in sizes of ≤5 L or ≤5 kg.	
ΙΑΤΑ	<ul> <li>The environmentally hazardous substance mark may appear if required by other transportation regulations.</li> </ul>
Special pred	<ul> <li>cautions 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.</li> </ul>

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 I petroleums	I	Flammable - Keep Fire Away	200 L

#### Pollutant Release and Transfer Registers (PRTR)

Ingredient name	%		Reference number
Ethylbenzene	5.5	Class 1	53
Xylene	4.1	Class 1	80

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

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

Ingredient name	%		Reference number
ethyl benzene	≤10	Special Organic Solvents	3-3

#### Substance(s) requiring labelling

Ingredient name	%	Status	Reference number
✔rystalline silica	≥10 - ≤20	Listed	165-2
Titanium(IV) oxide	≤10	Listed	191
Ethylbenzene	≤10	Listed	70
Xylene	≤10	Listed	136
Butanol	≤10	Listed	477

#### **Chemicals requiring notification**

Ingredient name	%	Status	Reference number
Titanium(IV) oxide Ethylbenzene Xylene	≥10 - ≤20 ≤10 ≤10 ≤10 ≤10	Listed Listed Listed Listed Listed	165-2 191 70 136 477

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

## 15. Regulatory information

Ingredient name	%		Reference number
quartz	≥10 - ≤20	Listed	-
quartz	≤10	Listed	

#### **Mutagen**

None of the components are listed.

Corrosive liquid	: Not listed
Occupational Safety and Health Law	: Inflammable
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	: Class 2

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

None of the components are listed.

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

Ingredient name	%	Status	Reference number
Olycondensate of 4,4'-isopropylidenediphenol and 1-chloro-2,3-epoxypropane (liquid only)	≥20 - ≤30	Priority assessment	87
Ethylbenzene	≤10	Priority assessment	50
Xylene	≤10	Priority assessment	125
1,2,4-Trimethylbenzene	≤10	Priority assessment	49
1,3,5-Trimethylbenzene	≤10	Priority assessment	201
Toluene	≤10	Priority assessment	46
Cumene	≤10	Priority assessment	126
Benzene	≤10	Priority assessment	45
Naphthalene	≤10	Priority assessment	76
Epichlorohydrin	≤10	Priority assessment	22
2,2,4,4,6,6,8,8-Octamethyl-	≤10	Monitoring	40
1,3,5,7,2,4,6,8-tetraoxatetrasilocane			

High Pressure Gas Control : Not available.

#### Law

### **Explosives Control Law**

None of the components are listed.

### 15. Regulatory information

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

#### Maritime Safety Law

#### Notification Regulating Transportation of Dangerous Materials by Sea

None of the components are listed.

#### **Container class**

None of the components are listed.

JSOH Carcinogen	: Group 1
List of Specially Controlled Industrial Waste	: Not listed
Japan inventory	: At least one component is not listed.
Road law	: Not available.

### **16. Other information**

<u>History</u>	
Date of issue/Date of revision	: 4 September 2024
Date of previous issue	: 8/28/2024
Version	: 3
Prepared by	: EHS
Key to abbreviations	: 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

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

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