# **SAFETY DATA SHEET**



Date of issue 6/28/2021 (month/day/year)

Version 10

### Section 1. Chemical product and company identification

A. Product name : SIGMAGUARD CSF 575 BASE BLUE

Product code : 00267616

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

**Product use** : Professional applications, Used by spraying.

Use of the substance/

mixture

: Coating.

**Uses advised against**: Product is not intended, labelled or packaged for consumer use.

C. Supplier'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:

**Email Address** 

: +82-52-210-8222

### Section 2. Hazards identification

A. Hazard classification : SKIN CORROSION/IRRITATION - Category 2

SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 2

SKIN SENSITIZATION - Category 1

GERM CELL MUTAGENICITY - Category 2

CARCINOGENICITY - Category 1A

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 : H315 - Causes skin irritation.

H317 - May cause an allergic skin reaction.

H319 - Causes serious eye irritation.

H341 - Suspected of causing genetic defects.

H350 - May cause cancer.

H411 - Toxic to aquatic life with long lasting effects.

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#### Section 2. Hazards identification

**Precautionary statements** 

**Prevention**: P201 - Obtain special instructions before use.

P280 - Wear protective gloves, protective clothing and eye or face protection.

P273 - Avoid release to the environment.

P261 - Avoid breathing vapor.

P264 - Wash thoroughly after handling.

Response : P391 - Collect spillage.

P308 + P313 - IF exposed or concerned: Get medical advice or attention. P362 + P364 - Take off contaminated clothing and wash it before reuse.

P302 + P352 - IF ON SKIN: Wash with plenty of water.

P333 + P313 - If skin irritation or rash occurs: 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

: None known.

### Section 3. Composition/information on ingredients

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

**CAS number** : Not applicable.

Chemical name	Common name	Identifiers	%
reaction product: bisphenol-A- (epichlorhydrin); epoxy resin	EPOXY RESIN	CAS: 25068-38-6	40 - <50
Kaolin 2,3-epoxypropyl neodecanoate Talc, not containing asbestiform fibers titanium dioxide 12-hydroxyoctadecanoic acid, reaction products with 1,3-benzenedimethanamine and hexamethylenediamine crystalline silica, respirable powder (<10	ALUMINUM SILICATE GLYCIDYL NEODECANOATE Talc, non-asbestos form TITANIUM DIOXIDE 12-hydroxyoctadecanoic acid, reaction products with 1,3-benzenedimethanamine and hexamethylenediamine QUARTZ (<10 microns)	CAS: 1332-58-7 CAS: 26761-45-5 CAS: 14807-96-6 CAS: 13463-67-7 CAS: 220926-97-6	10 -<20 10 -<20 10 -<20 5 - <10 1 - <5
microns)	QUARTZ (< 10 microns)	CAS. 14008-00-7	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.

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### 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.

Skin contact
 Remove contaminated clothing and shoes. Wash skin thoroughly with soap and water or use recognized skin cleanser. Do NOT use solvents or thinners.

C. Inhalation : Remove to fresh air. Keep person warm and at rest. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by

trained personnel.

D. Ingestion : If swallowed, seek medical advice immediately and show this container or label.

Keep person warm and at rest. Do NOT induce vomiting.

E. 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.

: Use an extinguishing agent suitable for the surrounding fire.

See toxicological information (Section 11)

### Section 5. Fire-fighting measures

#### A. Extinguishing media

Suitable extinguishing media

Unsuitable

from the chemical

None known.

extinguishing media

B. Specific hazards arising: In a fire or if heated, a pressure increase will occur and the container may burst.

This material is toxic to aquatic life with long lasting effects. Fire water contaminated with this material must be contained and prevented from be

contaminated with this material must be contained and prevented from being

discharged to any waterway, sewer or drain.

**Hazardous thermal** : Decomposition products may include the following materials: carbon oxides

nitrogen oxides

halogenated compounds 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.

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### 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. Avoid breathing vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.
- B. Environmental precautions
- : Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air). Water polluting material. May be harmful to the environment if released in large quantities. Collect spillage.
- C. Methods and materials for containment and cleaning up

**Small spill** 

: Stop leak if without risk. Move containers from spill area. 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. 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). Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. Persons with a history of skin sensitization problems should not be employed in any process in which this product is used. Do not get in eyes or on skin or clothing. Do not ingest. Avoid breathing vapor or mist. Avoid release to the environment. Refer to special instructions/safety data sheet. If during normal use the material presents a respiratory hazard, use only with adequate ventilation or wear appropriate respirator. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Empty containers retain product residue and can be hazardous. Do not reuse container.
- 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 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. 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
Kaolin	Ministry of Employment and Labor (Republic of Korea, 1/2020). TWA: 2 mg/m³ 8 hours. Form: Respirable
	fraction
Talc, not containing asbestiform fibers	Ministry of Employment and Labor (Republic of Korea, 1/2020). TWA: 2 mg/m³ 8 hours. Form: fibers
titanium dioxide	Ministry of Employment and Labor (Republic of Korea, 1/2020).  TWA: 10 mg/m³ 8 hours. Form: total dust with less than 1% of free SiO2
12-hydroxyoctadecanoic acid, reaction products with 1,3-benzenedimethanamine and hexamethylenediamine	ACGIH TLV (United States).  TWA: 10 mg/m³ Form: Inhalable particle  TWA: 3 mg/m³, (inhalable dust) Form:  Respirable particle
crystalline silica, respirable powder (<10 microns)	Ministry of Employment and Labor (Republic of Korea, 1/2020). TWA: 0.05 mg/m³ 8 hours. Form: Respirable fraction

#### Recommended monitoring procedures

- : If this product contains ingredients with exposure limits, personal, workplace atmosphere or biological monitoring may be required to determine the effectiveness of the ventilation or other control measures and/or the necessity to use respiratory protective equipment. Reference should be made to appropriate monitoring standards. Reference to national guidance documents for methods for the determination of hazardous substances will also be required.
- controls
- B. Appropriate engineering: If user operations generate dust, fumes, gas, vapor or mist, use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits.

**Environmental** exposure controls Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

#### C. Personal protective equipment

**Respiratory protection** 

: Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator. If workers are exposed to concentrations above the exposure limit, they must use appropriate, certified respirators. Use a properly fitted, air-purifying or air-fed respirator complying with an approved standard if a risk assessment indicates this is necessary.

**Eye protection Hand protection** 

- Chemical splash goggles.
- 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

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### Section 8. Exposure controls/personal protection

estimated.

**Gloves** : butyl rubber

: Personal protective equipment for the body should be selected based on the task **Body protection** 

being performed and the risks involved and should be approved by a specialist

before handling this product.

: Wash hands, forearms and face thoroughly after handling chemical products, **Hygiene measures** 

before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety

showers are close to the workstation location.

### Section 9. Physical and chemical properties

A. Appearance

**Physical state** : Liquid.

Color : Not available. B. Odor : Characteristic. C. Odor threshold : Not available. : Not applicable. D. pH E. Melting/freezing point : Not available.

F. Boiling point/boiling

range

: >37.78°C (>100°F)

G. Flash point : Closed cup: 94°C (201.2°F)

H. Evaporation rate : Not available. Flammability (solid, gas) : Not available. J. Lower and upper : Not available.

explosive (flammable)

limits

K. Vapor pressure : Not available.

L. Solubility : Insoluble in the following materials: cold water.

Solubility in water : Not available. M. Vapor density : Not available.

: 1.28 N. Relative density

: Not applicable. O. Partition coefficient: n-

octanol/water

P. Auto-ignition : Not available.

temperature

Q. Decomposition : Not available.

temperature

R. Viscosity : Kinematic (40°C (104°F)): >21 mm²/s (>21 cSt)

S. Molecular weight : Not applicable.

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### Section 10. Stability and reactivity

A. Chemical stability

: The product is stable.

Possibility of hazardous

: Under normal conditions of storage and use, hazardous reactions will not occur.

reactions

B. 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

Depending on conditions, decomposition products may include the following materials: carbon oxides nitrogen oxides halogenated compounds metal oxide/ decomposition products

oxides

## **Section 11. Toxicological information**

A. Information on the likely routes of exposure

: Not available.

#### Potential acute health effects

Inhalation : No known significant effects or critical hazards. : No known significant effects or critical hazards. Ingestion

: Causes skin irritation. May cause an allergic skin reaction. **Skin contact** 

: Causes serious eye irritation. **Eye contact** 

#### Over-exposure signs/symptoms

Inhalation : No specific data. Ingestion : No specific data.

**Skin contact** : Adverse symptoms may include the following:

> irritation redness

**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
eaction product: bisphenol-A- (epichlorhydrin); epoxy resin	LD50 Dermal	Rabbit	>2 g/kg	-
	LD50 Oral	Rat	>2 g/kg	-
Kaolin	LC50 Inhalation Dusts and mists	Rat	>5.07 mg/l	4 hours
	LD50 Oral	Rat	>5000 mg/kg	-
2,3-epoxypropyl neodecanoate	LD50 Dermal	Rat	3800 mg/kg	-
	LD50 Oral	Rat	9.6 g/kg	-
titanium dioxide	LC50 Inhalation Dusts and mists	Rat	>6.82 mg/l	4 hours
	LD50 Dermal	Rabbit	>5000 mg/kg	-
	LD50 Oral	Rat	>5000 mg/kg	-

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12-hydroxyoctadecanoic acid, reaction products with 1,3-benzenedimethanamine and hexamethylenediamine	LC50 Inhalation Dusts and mists	Rat	3.56 mg/l	4 hours
	LD50 Dermal LD50 Oral	Rat Rat	>2000 mg/kg >2000 mg/kg	-

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

#### **Irritation/Corrosion**

Product/ingredient name	Result	Species	Score	Exposure	Observation
reaction product: bisphenol-A- (epichlorhydrin); epoxy resin	Skin - Moderate irritant	Rabbit	-	-	-
	Eyes - Moderate irritant	Rabbit	-	-	-
	Eyes - Mild irritant	Rabbit	-	100 mg	-
	Skin - Moderate irritant	Rabbit	-	24 hours 500	-
				UI	
	Skin - Severe irritant	Rabbit	-	24 hours 2	-
				mg	

**Conclusion/Summary** 

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

#### **Sensitization**

Product/ingredient name	Route of exposure	Species	Result
reaction product: bisphenol- A-(epichlorhydrin); epoxy resin	skin	Mouse	Sensitizing

#### **Conclusion/Summary**

Skin : There are no data available on the mixture itself.

Respiratory : 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)

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### **Section 11. Toxicological information**

Name	Classification	Route of exposure	Target organs
▼alc, not containing asbestiform fibers	Category 3	-	Respiratory tract irritation

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

Name	Classification	Route of exposure	Target organs
<ul><li></li></ul>	Category 2	inhalation	lungs

#### **Aspiration hazard**

Not available.

#### Potential chronic health effects

General : Once sensitized, a severe allergic reaction may occur when subsequently exposed to

very low levels.

**Carcinogenicity**: May cause cancer. Risk of cancer depends on duration and level of exposure.

**Mutagenicity**: Suspected of causing genetic defects.

**Reproductive toxicity**: No known significant effects or critical hazards.

#### **Additional information**

Sanding and grinding dusts may be harmful if inhaled.

Chemical name	Common name	CAS#	GHS Classification
reaction product: bisphenol-A-(epichlorhydrin); epoxy resin	EPOXY RESIN	CAS: 25068-38-6	SKIN CORROSION/IRRITATION - Category 2
Testif			SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 2 SKIN SENSITIZATION - Category 1 AQUATIC HAZARD (LONG-TERM) - Category 2
Kaolin	ALUMINUM SILICATE	CAS: 1332-58-7	Not classified.
2,3-epoxypropyl neodecanoate	GLYCIDYL NEODECANOATE	CAS: 26761-45-5	SKIN SENSITIZATION - Category 1
			GERM CELL MUTAGENICITY - Category 2 AQUATIC HAZARD (LONG-TERM) - Category 2
Talc, not containing asbestiform fibers	Talc, non-asbestos form	CAS: 14807-96-6	SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Respiratory tract irritation) - Category 3
titanium dioxide	TITANIUM DIOXIDE	CAS: 13463-67-7	CARCINOGENICITY - Category 2
12-hydroxyoctadecanoic acid, reaction products with 1,3-benzenedimethanamine and hexamethylenediamine	12-hydroxyoctadecanoic acid, reaction products with 1,3-benzenedimethanamine and hexamethylenediamine	CAS: 220926-97-6	ACUTE TOXICITY (inhalation) - Category 4

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Section 11. Toxico		ation		
crystalline silica, respirable powder (<10 microns)	QUARTZ (<10 microns)	CAS: 14808-60-	SPECIFIC TARGET ORG (REPEATED EXPOSURE CARCINOGENICITY - Ca	E) - Category 2

# Section 12. Ecological information

### A. **Ecotoxicity**

Product/ingredient name	Result	Species	Exposure
reaction product: bisphenol- A-(epichlorhydrin); epoxy resin	Chronic NOEC 0.3 mg/l	Daphnia	21 days
2,3-epoxypropyl neodecanoate	Acute EC50 3.5 mg/l	Algae	96 hours
	Acute EC50 4.8 mg/l	Daphnia - Daphnia magna	48 hours
	Acute LC50 9.6 mg/l	Fish - Oncorhynchus mykiss	96 hours
titanium dioxide	Acute LC50 >100 mg/l Fresh water	Daphnia - Daphnia magna	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 - Daphnia magna (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

### B. Persistence and degradability

Product/ingredient name	Test	Result	Dose	Inoculum
reaction product: bisphenol- A-(epichlorhydrin); epoxy resin	OECD 301F	5 % - 28 days	-	-
12-hydroxyoctadecanoic acid, reaction products with 1,3-benzenedimethanamine and hexamethylenediamine	OECD 301D Ready Biodegradability - Closed Bottle Test	9 % - Not readily - 29 days	-	-
Product/ingredient name	Aquatic half-life	Photolysis		Biodegradability

Product/ingredient name	Aquatic half-life	Photolysis	Biodegradability
reaction product: bisphenol-	-	-	Not readily
A-(epichlorhydrin); epoxy			
resin			
2,3-epoxypropyl neodecanoate	-	-	Not readily

#### C. Bioaccumulative potential

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### Section 12. Ecological information

Product/ingredient name	LogPow	BCF	Potential
reaction product: bisphenol- A-(epichlorhydrin); epoxy resin	2.64 to 3.78	31	low
2,3-epoxypropyl neodecanoate	4.4	-	high
12-hydroxyoctadecanoic acid, reaction products with 1,3-benzenedimethanamine and hexamethylenediamine	>6	-	high

D. Mobility in soil

Soil/water partition coefficient (Koc)

: Not available.

E. Other adverse effects: 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. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

### **Section 14. Transport information**

	UN	IMDG	IATA
A. UN number	UN3082	UN3082	UN3082
B. UN proper shipping name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.
	reaction product: bisphenol-A- (epichlorhydrin); epoxy resin, 2,3-epoxypropyl neodecanoate)	reaction product: bisphenol-A- (epichlorhydrin); epoxy resin, 2,3-epoxypropyl neodecanoate)	reaction product: bisphenol- A-(epichlorhydrin); epoxy resin, 2,3-epoxypropyl neodecanoate)
C. Transport hazard class(es)	9	9	9
D. Packing group	III	III	III
Environmental hazards	Yes.	Yes.	Yes.

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Section 14. Transport information

E. Marine
pollutant
substances

Not applicable.

(epichlorhydrin); epoxy resin,
2,3-epoxypropyl
neodecanoate)

Not applicable.

#### **Additional information**

**IATA** 

UN : This product is not regulated as a dangerous good when transported in sizes of ≤5 L or ≤5 kg,

provided the packagings meet the general provisions of 4.1.1.1, 4.1.1.2 and 4.1.1.4 to 4.1.1.8.

IMDG : This product is not regulated as a dangerous good when transported in sizes of ≤5 L or ≤5 kg,

provided the packagings meet the general provisions of 4.1.1.1, 4.1.1.2 and 4.1.1.4 to 4.1.1.8.

: This product is not regulated as a dangerous good when transported in sizes of ≤5 L or ≤5 kg, provided the packagings meet the general provisions of 5.0.2.4.1, 5.0.2.6.1.1 and 5.0.2.8.

# 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** : None of the components are listed.

(Harmful substances prohibited from manufacture)

ISHA article 118 : None of the components are listed.

(Harmful substances requiring permission)

Article 2 of Youth Protection : It is not allowed to sell to persons under the age of 19.

Act on Substances Hazardous

to Youth

#### **Exposure Limits of Chemical Substances and Physical Factors**

The following components have an OEL:

Kaolin

Talc, not containing asbestiform fibers

titanium dioxide

12-hydroxyoctadecanoic acid, reaction products with 1,3-benzenedimethanamine and hexamethylenediamine crystalline silica, respirable powder (<10 microns)

**ISHA Enforcement Regs**: None of the components are listed.

Annex 19 (Exposure standards established for harmful factors)

ISHA Enforcement Regs: The following components are listed: silicates, talc / soapstone, titanium dioxide

Annex 11-5 (Harmful factors subject to Work

**Environment Measurement**)

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### Section 15. Regulatory information

**Annex 22 (Harmful Factors Subject to** Special Health Check-

up)

Standard of Industrial

**Safety and Health Annex 12 (Hazardous** substances subject to control)

ISHA Enforcement Regs : None of the components are listed.

: The following components are listed: titanium dioxide

B. Regulation according to Chemicals Control Act

**CCA Article 11 (TRI)** 

: The following components are listed: 4,4'-(1-Methylethylidene) bisphenol polymer

with (chloromethyl)oxirane

**CCA Article 18** 

**Prohibited (K-Reach** 

Article 27)

: None of the components are listed.

: None of the components are listed.

**CCA Article 19 Subject** to authorization (K-

Reach Article 25)

**CCA Article 20 Restricted (K-Reach** 

Article 27)

**CCA Article 20 Toxic** 

**Chemicals (K-Reach** 

Article 20)

: None of the components are listed.

Korea inventory **CCA Article 39** 

(Accident Precaution

Chemicals)

: All components are listed or exempted.

: None of the components are listed.

C. <u>Dangerous Materials</u>

**Safety Management Act** 

: Not applicable.

: Not applicable

D. Wastes regulation

: Dispose of contents and container in accordance with all local, regional, national

and international regulations.

E. Regulation 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

A. 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.

B. Date of issue/Date of

revision

: 6/28/2021

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**Product name SIGMAGUARD CSF 575 BASE BLUE** 

#### **Section 16. Other information**

C. Version : 10
Prepared by : EHS

D. Other

▼ Indicates information that has changed from previously issued version.

#### **Disclaimer**

The information contained in this data sheet is based on present scientific and technical knowledge. The purpose of this information is to draw attention to the health and safety aspects concerning the products supplied by PPG, and to recommend precautionary measures for the storage and handling of the products. No warranty or guarantee is given in respect of the properties of the products. No liability can be accepted for any failure to observe the precautionary measures described in this data sheet or for any misuse of the products.

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