SAFETY DATA SHEET



Date of issue 2/23/2024 (month/day/year)

Version 1.01

Section 1. Chemical product and company identification

A. Product name : SIGMAPRIME CSF BASE REDBROWN Product code : 000001187759

Other means of identification 00444304

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 or Importer's information	: PPG SSC (680-090) 19, Yeocheon-ro 217beon-gil, Nam-gu, Ulsan, Korea Tel: +82-52-210-8222
Email Address	Korea.MSDS@PPG.COM
Emergency telephone number:	: +82-52-210-8331

Section 2. Hazards identification

A. Hazard classification	: FLAMMABLE LIQUIDS - Category 3
	SKIN IRRITATION - Category 2
	SERIOUS EYE DAMAGE - Category 1
	SKIN SENSITIZATION - Category 1
	AQUATIC HAZARD (LONG-TERM) - Category 3
This product is clossified in	accordance with the Industrial Sefety and Health Act and the Chemical Central Act

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	
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Signal word	: Danger
Hazard statements	 H226 - Flammable liquid and vapor. H315 - Causes skin irritation. H317 - May cause an allergic skin reaction. H318 - Causes serious eye damage. H412 - Harmful to aquatic life with long lasting effects.

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Section 2. Hazards identification

	Precautionary statements	5	
	Prevention	:	 P280 - Wear protective gloves. Wear eye or face protection. P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. P241 - Use explosion-proof electrical, ventilating or lighting equipment. P242 - Use non-sparking tools. P243 - Take action to prevent static discharges. P273 - Avoid release to the environment. P261 - Avoid breathing vapor. P264 - Wash thoroughly after handling.
	Response	:	 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, P310 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or doctor.
	Storage	1	P403 + P235 - Store in a well-ventilated place. Keep cool.
	Disposal	:	P501 - Dispose of contents and container in accordance with all local, regional, national and international regulations.
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	%
4,4'-Isopropylidenedicyclohexanol, oligomeric reaction products with 1-chloro-2,3-epoxypropane	cyclohexanol, 4,4'-(1-methylethylidene) bis-, polymer with (chloromethyl)oxirane	CAS: 30583-72-3	10 -<20
4,4'-(1-methylethylidene)bisphenol polymer with (chloromethyl)oxirane	EPOXY RESIN	CAS: 25068-38-6	10 -<20
[3-(2,3-epoxypropoxy)propyl] trimethoxysilane	TRIMETHOXYSILANE	CAS: 2530-83-8	5 - <10
1,6-bis(2,3-epoxypropoxy)hexane	1,6-HEXANDIOLGLYCIDETHER	CAS: 16096-31-4	5 - <10
Mica-group minerals	MICA	CAS: 12001-26-2	1 - <5
diiron trioxide	Diiron trioxide	CAS: 1309-37-1	1 - <5
titanium dioxide	TITANIUM DIOXIDE	CAS: 13463-67-7	0.1 - <1
ethanol	ETHYL ALCOHOL	CAS: 64-17-5	0.1 - <1
ethylbenzene	ETHYLBENZENE	CAS: 100-41-4	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	:	Check for and remove any contact lenses. Immediately flush eyes with running water for at least 15 minutes, keeping eyelids open. Seek immediate medical attention.
В.	Skin contact	:	Remove contaminated clothing and shoes. Wash skin thoroughly with soap and water or use recognized skin cleanser. Do NOT use solvents or thinners.
C.	Inhalation	:	Remove to fresh air. Keep person warm and at rest. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel.
D.	Ingestion	:	If swallowed, seek medical advice immediately and show this container or label. Keep person warm and at rest. Do NOT induce vomiting.
Ε.	Notes to physician	:	Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
	Specific treatments	1	No specific treatment.
	Protection of first-aiders	:	No action shall be taken involving any personal risk or without suitable training. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Wash contaminated clothing thoroughly with water before removing it, or wear gloves.

See toxicological information (Section 11)

Section 5. Fire-fighting measures

Α.	Extinguishing media		
	Suitable extinguishing media	:	Use dry chemical, CO ₂ , water spray (fog) or foam.
	Unsuitable extinguishing media	:	Do not use water jet.
В.	Specific hazards arising from the chemical	:	Flammable liquid and vapor. Runoff to sewer may create fire or explosion hazard. In a fire or if heated, a pressure increase will occur and the container may burst, with the risk of a subsequent explosion. This material is harmful 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 sulfur 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. Move containers from fire area if this can be done without risk. Use water spray to keep fire-exposed containers cool.
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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. Shut off all ignition sources. No flares, smoking or flames in hazard area. Do not breathe 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.
C. Methods and materials for	СС	ontainment and cleaning up
Small spill	:	Stop leak if without risk. Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.
Large spill	:	Stop leak if without risk. Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Approach release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non- combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see Section 13). Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilled product. Note: see Section 1 for emergency contact information and Section 13 for waste disposal.

Section 7. Handling and storage

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

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Section 8. Exposure controls/personal protection

A. Occupational exposure limits

Ingredient name		Exposure limits	
Mica-group minerals		Ministry of Employment and Labor (Republic of Korea, 1/2020). TWA: 3 mg/m ³ 8 hours. Form: Respirable	
diiron trioxide		fraction Ministry of Employment and Labor (Republic of Korea, 1/2020). [Iron oxide (Fume, as Fe)]	
		TWA: 5 mg/m³, (as Fe) 8 hours. Form:	
		Fume	
		Ministry of Employment and Labor (Republic of Korea, 1/2020). [Iron oxide as Fe]	
		TWA: 5 mg/m³, (as Fe) 8 hours.	
titanium dioxide		Ministry of Employment and Labor	
		(Republic of Korea, 1/2020).	
		TWA: 10 mg/m ³ 8 hours. Form: total dust	
ethanol		with less than 1% of free SiO2 Ministry of Employment and Labor	
ellanoi		(Republic of Korea, 1/2020).	
		TWA: 1000 ppm 8 hours.	
ethylbenzene		Ministry of Employment and Labor	
		(Republic of Korea, 1/2020).	
		STEL: 125 ppm 15 minutes.	
		TWA: 100 ppm 8 hours.	
Recommended monitoring procedures		opriate monitoring standards. Reference to ethods for the determination of hazardous	
Appropriate engineering controls	ventilation or other engineering con contaminants below any recommen	Use process enclosures, local exhaust trols to keep worker exposure to airborne ided or statutory limits. The engineering control st concentrations below any lower explosive ion equipment.	
Environmental	: Emissions from ventilation or work	process equipment should be checked to ensur	
exposure controls		of environmental protection legislation. In some gineering modifications to the process uce emissions to acceptable levels.	
Personal protective equipment			
Respiratory protection	hazards of the product and the safe workers are exposed to concentrat	d on known or anticipated exposure levels, the e working limits of the selected respirator. If ions above the exposure limit, they must use Jse a properly fitted, air-purifying or air-fed	
		ved standard if a risk assessment indicates this	

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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	: butyl rubber
Body protection	: Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product. When there is a risk of ignition from static electricity, wear anti-static protective clothing. For the greatest protection from static discharges, clothing should include anti-static overalls, boots and gloves.
Hygiene measures	: Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. 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

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

Solubility(ies)		hexane Media	Re	\$
		1,6-bis (2,3-epoxypropoxy)	0.067505535	(
		Ingredient name	mm Hg	
Vapor pressure	÷		Vapo	r
Lower and upper explosive (flammable) limits	-	Not available.		
Flammability (solid, gas)	1	Not available.		
Evaporation rate	1	Not available.		
Flash point	1	Closed cup: 51°C (1	23.8°F)	
Boiling point/boiling range	1	>37.78°C (>100°F)		
Melting/freezing point	4	Not available.		
рН	:	Not applicable.		
Odor threshold	:	Not available.		
Odor	1	Characteristic.		
Color	1	Not available.		
Physical state	:	Liquid.		
Appearance				
F	Physical state	Physical state :	Physical state : Liquid.	Physical state : Liquid.

- 1		Vapor Pressure at 20°C			Vapor pressure at 50°C		
	Ingredient name	mm Hg	kPa	Method	mm Hg	kPa	Method
	1,6-bis (2,3-epoxypropoxy) hexane	0.067505535	0.009				
	Media	Re	sult				
	cold water	No	t soluble				

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Solubility in water : Not available.

м.	Vapor density	:	Not available.
м. N.	Relative density	:	1.79
N.	Partition coefficient: n-	:	Not applicable.

- O. octanol/water
- P. Auto-ignition temperature

	Ingredient name	°C	°F	Method	
	[3-(2,3-epoxypropoxy)propyl] trimethoxysilane	400	752	DIN 51794	
on	: Not available.				

Q.	Decomposition temperature	: Not available.
R.	Viscosity	: Kinematic (40°C (104°F)): >21 mm²/s (>21 cSt)
	Flow time (ISO 2431)	: Not available.
S.	Molecular weight	: Not applicable.

Section 10. Stability and reactivity

Α.	Chemical stability Possibility of hazardous reactions		The product is stable. Under normal conditions of storage and use, hazardous reactions will not occur.
в.	Conditions to avoid	:	When exposed to high temperatures may produce hazardous decomposition products.
C.	Incompatible materials	:	Keep away from the following materials to prevent strong exothermic reactions: oxidizing agents, strong alkalis, strong acids.
D.	Hazardous decomposition products	:	Depending on conditions, decomposition products may include the following materials: carbon oxides sulfur oxides halogenated compounds metal oxide/ oxides
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Section 11. Toxicological information

Α.	Information on the like routes of exposure	ely	Not available.
<u>P</u>	otential acute health ef	fe	<u>cts</u>
	Inhalation	:	No known significant effects or critical hazards.
	Ingestion	:	No known significant effects or critical hazards.
	Skin contact	:	Causes skin irritation. May cause an allergic skin reaction.
	Eye contact	:	Causes serious eye damage.
<u>0</u>	ver-exposure signs/sy	mŗ	<u>otoms</u>
	Inhalation	:	No specific data.
	Ingestion	:	Adverse symptoms may include the following: stomach pains

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Skin contact	: Adverse symptoms may include the following: pain or irritation redness blistering may occur
Eye contact	: Adverse symptoms may include the following: pain watering redness

B. Health hazards

Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
4,4'-(1-methylethylidene)bisphenol polymer with (chloromethyl)oxirane	LD50 Dermal	Rabbit	>2 g/kg	-
	LD50 Oral	Rat	>2 g/kg	-
[3-(2,3-epoxypropoxy)propyl] trimethoxysilane	LC50 Inhalation Dusts and mists	Rat	>5300 mg/m ³	4 hours
	LD50 Dermal LD50 Oral	Rabbit Rat	4.3 g/kg 7.01 g/kg	-
diiron trioxide	LC50 Inhalation Dusts and mists	Rat	>5 mg/l	4 hours
	LD50 Oral	Rat	10 g/kg	-
titanium dioxide	LC50 Inhalation Dusts and mists	Rat	>6.82 mg/l	4 hours
	LD50 Dermal LD50 Oral	Rabbit Rat	>5000 mg/kg >5000 mg/kg	-
ethanol	LC50 Inhalation Vapor	Rat	124700 mg/m ³	4 hours
	LD50 Dermal LD50 Oral	Rat Rat	17100 mg/kg 7 g/kg	-
ethylbenzene	LC50 Inhalation Vapor LD50 Dermal	Rat Rabbit	17.8 mg/l 17.8 g/kg	4 hours -
	LD50 Oral	Rat	3.5 g/kg	-

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

Irritation/Corrosion

Product/ingredient name	Result	Species	Score	Exposure	Observation	
4,4'-(1-methylethylidene) bisphenol polymer with (chloromethyl)oxirane	Eyes - Mild irritant	Rabbit	-	100 mg	-	
	Eyes - Moderate irritant	Rabbit	-	-	-	
	Skin - Moderate irritant	Rabbit	-	-	-	
	Skin - Moderate irritant	Rabbit	-	24 hours 500 Ul	-	
	Skin - Severe irritant	Rabbit	-	24 hours 2 mg	-	
[3-(2,3-epoxypropoxy)propyl] trimethoxysilane	Eyes - Cornea opacity	Rabbit	11.8	1 minutes	24 hours	
Conclusion/Summary						
Skin : There are no data available on the mixture itself.						
Eyes :	Eves : There are no data available on the mixture itself.					
Respiratory :	There are no data available o	on the mixture i	tself.			

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Section 11. Toxicological information

Sensitization

Product/ingredient name	Route of exposure	Species	Result			
4,4'-(1-methylethylidene) bisphenol polymer with (chloromethyl)oxirane	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.				
<u>Mutagenicity</u> Conclusion/Summary	: There are no data available on the mixture itself.					
<u>Carcinogenicity</u> Conclusion/Summary	: There are no data available on the mixture itself.					
Reproductive toxicity Conclusion/Summary	: There are no data	a available on the mixture itself.				
<u>Teratogenicity</u> Conclusion/Summary	: There are no data	a available on the mixture itself.				
Specific target organ toxic	<u>ity (single exposur</u>	<u>e)</u>				

Not available.

Specific target organ toxicity (repeated exposure)

Not available.

Aspiration hazard

Name	Result
ethylbenzene	ASPIRATION HAZARD - Category 1

Potential chronic health effects

General	: Once sensitized, a severe allergic reaction may occur when subsequently exposed to very low levels.
Carcinogenicity	: No known significant effects or critical hazards.
Mutagenicity	: No known significant effects or critical hazards.
Reproductive toxicity	: No known significant effects or critical hazards.

Additional information

Sanding and grinding dusts may be harmful if inhaled. Trimethoxysilanes are capable of forming methanol if hydrolyzed or ingested. If swallowed, methanol may be harmful or fatal or cause blindness.

Section 11. Toxicological information

Chemical name	Identifiers	GHS Classification
4,4'-Isopropylidenedicyclohexanol, oligomeric reaction products with 1-chloro-2,3-epoxypropane	CAS: 30583-72-3	SKIN SENSITIZATION - Category 1B
		AQUATIC HAZARD (LONG-TERM) - Category 3
4,4'-(1-methylethylidene)bisphenol polymer with (chloromethyl)oxirane	CAS: 25068-38-6	SKIN IRRITATION - Category 2
		EYE IRRITATION - Category 2A
		SKIN SENSITIZATION - Category 1
	0.4.0, 0.500, 00, 0	AQUATIC HAZARD (LONG-TERM) - Category 2
[3-(2,3-epoxypropoxy)propyl] trimethoxysilane	CAS: 2530-83-8	SERIOUS EYE DAMAGE - Category 1
1,6-bis(2,3-epoxypropoxy)hexane	CAS: 16096-31-4	SKIN IRRITATION - Category 2
		EYE IRRITATION - Category 2A
		SKIN SENSITIZATION - Category 1B
Mica-group minerals	CAS: 12001-26-2	AQUATIC HAZARD (LONG-TERM) - Category 3 Not classified.
diiron trioxide	CAS: 12001-20-2 CAS: 1309-37-1	Not classified.
titanium dioxide	CAS: 13463-67-7	CARCINOGENICITY - Category 2
ethanol	CAS: 64-17-5	FLAMMABLE LIQUIDS - Category 2
		EYE IRRITATION - Category 2A
		CARCINOGENICITY - Category 2
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

Section 12. Ecological information

A. <u>Ecotoxicity</u>

Product/ingredient name	Result	Species	Exposure
4,4'- Isopropylidenedicyclohexanol, oligomeric reaction products with 1-chloro- 2,3-epoxypropane	LC50 11.5 mg/l	Fish	96 hours
4,4'-(1-methylethylidene) bisphenol polymer with (chloromethyl)oxirane	Chronic NOEC 0.3 mg/l	Daphnia	21 days
[3-(2,3-epoxypropoxy) propyl]trimethoxysilane	Acute LC50 324 mg/l	Daphnia	48 hours
diiron trioxide	Acute EC50 >100 mg/l	Daphnia	48 hours
titanium dioxide	Acute LC50 >100 mg/l Fresh water	Daphnia - <i>Daphnia magna</i>	48 hours
ethanol	Acute EC50 7640 mg/l Fresh water	Daphnia - <i>Daphnia magna</i>	48 hours
ethylbenzene	Acute EC50 1.8 mg/l Fresh water Chronic NOEC 1 mg/l Fresh water	Daphnia Daphnia - <i>Ceriodaphnia dubia</i>	48 hours -

B. Persistence and degradability

Section 12. Ecological information

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Product/ingredient name	Test	Result		Dose		Inoculum
4,4'-(1-methylethylidene) bisphenol polymer with (chloromethyl)oxirane ethylbenzene	OECD 301F -	5 % - 28 da 79 % - Rea	ays adily - 10 days	-		-
Product/ingredient name	Aquatic half-life		Photolysis		Biodeg	radability
4,4'-(1-methylethylidene) bisphenol polymer with (chloromethyl)oxirane ethanol ethylbenzene	-		-		Not rea Readily Readily	

C. Bioaccumulative potential

Product/ingredient name	LogPow	BCF	Potential
4,4'-(1-methylethylidene) bisphenol polymer with (chloromethyl)oxirane	2.64 to 3.78	31	Low
1,6-bis(2,3-epoxypropoxy) hexane	0.822	-	Low
ethanol ethylbenzene	-0.35 3.6	- 79.43	Low Low

D. Mobility in soil

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

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

Section 13. Disposal considerations

- A. Disposal methods
 The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible.
- B. Disposal precautions
 This material and its container must be disposed of in a safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Vapor from product residues may create a highly flammable or explosive atmosphere inside the container. Do not cut, weld or grind used containers unless they have been cleaned thoroughly internally. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

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Section 14. Transport information

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

Additional information

UN	: None identified.
IMDG	: None identified.
ΙΑΤΑ	: 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

Α.	Regulation according to I	<u>SHA</u>	
	ISHA article 117 (Harmful substances prohibited from manufacture)	: None of the components are listed.	
	ISHA article 118 (Harmful substances requiring permission)	: None of the components are listed.	
	Article 2 of Youth Protection Act on Substances Hazardous to Youth	: It is not allowed to sell to persons under the age of 19.	
	Exposure Limits of Chem	ical Substances and Physical Factors	
	The following components Mica-group minerals diiron trioxide titanium dioxide ethanol ethylbenzene	have an OEL:	

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Section 15. Regulatory information

	ISHA Enforcement Regs Annex 19 (Exposure standards established for harmful factors)	:	None of the components are listed.
	ISHA Enforcement Regs Annex 21 (Harmful factors subject to Work Environment Measurement)	:	The following components are listed: mica, iron oxide
	ISHA Enforcement Regs Annex 22 (Harmful Factors Subject to Special Health Check- up)	:	The following components are listed: mica, Iron oxide (dust, fume)
	Standard of Industrial Safety and Health Annex 12 (Hazardous substances subject to control)	:	The following components are listed: mica, iron and its compounds
В.	Regulation according to	Ch	emicals Control Act
	Article 11 (TRI)	:	The following components are listed: Barium and its compounds, 4,4'- (1-Methylethylidene) bisphenol polymer with (chloromethyl)oxirane, Ethylbenzene
	Article 18 Prohibited (K- Reach Article 27)	1	None of the components are listed.
	Article 19 Subject to authorization (K-Reach Article 25)	:	None of the components are listed.
	Article 20 Restricted (K- Reach Article 27)	:	None of the components are listed.
	Article 20 Toxic Chemicals (K-Reach Article 20)	:	Not applicable
	Korea inventory	:	All components are listed or exempted.
	Article 39 (Accident Precaution Chemicals)	1	None of the components are listed.
C.	Dangerous Materials Safety Management Act	:	Class: Class 4 - Flammable Liquid Item: 4. Class 2 petroleums - Water-insoluble liquid Threshold: 1000 L Danger category: III Signal word: Contact with sources of ignition prohibited
D.	Wastes regulation	:	Dispose of contents and container in accordance with all local, regional, national and international regulations.
Ε.	Regulation according to	oth	er 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).

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Product name SIGMAPRIME CSF BASE REDBROWN

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	: 2/23/2024
C. Version	: 1.01
Prepared by	: EHS

D. Other

Indicates information that has changed from previously issued version.

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