SAFETY DATA SHEET

SIGMAPRIME CSF BASE REDBROWN



Date of issue 28 April 2025

Version 2

1. Product and company identification

Product name : SIGMAPRIME CSF BASE REDBROWN

 Product code
 : 000001187759

 Other means of
 : 00444304

identification

Product type : Liquid.

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 : 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 3

SKIN IRRITATION - Category 2
SERIOUS EYE DAMAGE - Category 1
SKIN SENSITIZATION - Category 1

GERM CELL MUTAGENICITY - Category 2

CARCINOGENICITY - Category 1A

TOXIC TO REPRODUCTION - Category 1B

SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) - Category 2 SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) - Category 2 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

Japan Page: 1/17

Version 2 Product code 000001187759 Date of issue 28 April 2025

Product name SIGMAPRIME CSF BASE REDBROWN

2. Hazards identification

Hazard statements

: Flammable liquid and vapor.

Causes skin irritation.

May cause an allergic skin reaction.

Causes serious eye damage.

Suspected of causing genetic defects.

May cause cancer.

May damage fertility or the unborn child.

May cause damage to organs. (respiratory organs)

May cause damage to organs through prolonged or repeated exposure. (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.

Response

: Collect spillage. IF exposed or concerned: Call a POISON CENTER or doctor. IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with 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. Immediately call a POISON CENTER or doctor.

Storage

Store locked up.

Disposal

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

Other hazards which do not : None known. 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
4.4'-Isopropylidenedicyclohexanol, oligomeric reaction products with 1-chloro-2,3-epoxypropane	15 - <20	30583-72-3	7-1282
Polycondensate of 4,4'-isopropylidenediphenol and 1-chloro-2,3-epoxypropane (liquid only)	12.5 - <15	25068-38-6	7-1283
2-{[3-(Trimethoxysilyl)propoxy]methyl}oxirane	7 - <10	2530-83-8	2-2071
1,6-Hexanediol, reaction products with epichlorohydrin	5 - <7	933999-84-9	Not available.
Mica	3 - <5	12001-26-2	Not available.
Diiron trioxide	2 - <3	1309-37-1	1-357; 5-5188
benzyl alcohol	0.5 - <1	100-51-6	3-1011
Titanium dioxide (excluding nanoparticle)	0.5 - <1	13463-67-7	1-558; 5-5225
Xylene	0.5 - <1	1330-20-7	3-3; 3-60
Octadecanamide, N,N'-1,6-hexanediylbis [12-hydroxy-	0.2 - <0.5	55349-01-4	2-3055
Ethanol	0.1 - < 0.2	64-17-5	2-202
Ethyl Benzene	0.1 - <0.2	100-41-4	3-28; 3-60

Japan Page: 2/17

Product name SIGMAPRIME CSF BASE REDBROWN

3. Composition/information on ingredients

N,N'-ethane-1,2-diylbis(12-hydroxyoctadecan-	0.1 - <0.2	123-26-2	2-2720
1-amide)			

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 necessary first aid measures

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.

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: Remove contaminated clothing and shoes. Wash skin thoroughly with soap and

water or use recognized skin cleanser. Do NOT use solvents or thinners.

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

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

Most important symptoms/effects, acute and delayed

Potential acute health effects

Eye contact : Causes serious eye damage.

Inhalation : No known significant effects or critical hazards.

Skin contact: May cause damage to organs following a single exposure in contact with skin.

Causes skin irritation. May cause an allergic skin reaction.

Ingestion : May cause damage to organs following a single exposure if swallowed.

Over-exposure signs/symptoms

Eye contact: Adverse symptoms may include the following:

pain 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:

pain or irritation

redness

blistering may occur reduced fetal weight increase in fetal deaths skeletal malformations

Ingestion : Adverse symptoms may include the following:

stomach pains reduced fetal weight increase in fetal deaths skeletal malformations

Indication of immediate medical attention and special treatment needed, if necessary

Notes to physician : Treat symptomatically. Contact poison treatment specialist immediately if large

quantities have been ingested or inhaled.

Japan Page: 3/17

Product code 000001187759

Date of issue 28 April 2025

Version 2

Product name SIGMAPRIME CSF BASE REDBROWN

4. First aid measures

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, CO₂, water spray (fog) or foam.

Unsuitable extinguishing media

: Do not use water jet.

Specific hazards arising from the chemical

: Flammable liquid and vapor. Runoff to sewer may create fire or explosion hazard. In a fire or if heated, a pressure increase will occur and the container may burst, with the risk of a subsequent explosion. This material is toxic to aquatic life with long lasting effects. Fire water contaminated with this material must be contained and prevented from being discharged to any waterway, sewer or drain.

Hazardous thermal decomposition products : Decomposition products may include the following materials:

carbon oxides sulfur oxides

halogenated compounds metal oxide/oxides

for fire-fighters

Special protective actions : 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. Do not breathe 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".

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.

> Japan Page: 4/17

6. Accidental release measures

Methods and materials for containment and cleaning up

Small spill

: Stop leak if without risk. Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.

Large spill

: Stop leak if without risk. Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Approach release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with noncombustible, 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.

7. Handling and storage

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. 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

Japan Page: 5/17

8. Exposure controls/personal protection

Ingredient name	Exposure limits
diron trioxide	Japan Society for Occupational Health (Japan, 5/2023) [Class 2 dusts (Bakelite (asbestos-free, technical grade), Carbon black, Coal, Cork dust, Cotton dust, Iron oxide, Grain dust, Joss stick material dust, Marble, Portland cement, Zinc oxide)] OEL-M 8 hours: 1 mg/m³. Form: Respirable dust (Class 2 Dust). OEL-M 8 hours: 4 mg/m³. Form: Total dust (Class 2 Dust).
benzyl alcohol	Japan Society for Occupational Health (Japan, 5/2023) Skin sensitizer. OEL-C: 25 mg/m³.
titanium dioxide	Japan Society for Occupational Health (Japan, 5/2023) [titanium dioxide] OEL-M 8 hours: 1.5 mg/m³ (as Ti). Form: Respirable particulate matter. OEL-M 8 hours: 2 mg/m³ (as Ti). Form: Total particulate matter. Japan Society for Occupational Health (Japan, 5/2023) [titanium dioxide (nanoparticle)] OEL-M 8 hours: 0.3 mg/m³. Form: nanoparticle.
xylene	Japan Society for Occupational Health (Japan, 5/2023) OEL-M 8 hours: 50 ppm. OEL-M 8 hours: 217 mg/m³. Industrial Safety and Health Act (Japan, 6/2020) [xylene] TWA 8 hours: 50 ppm.
ethylbenzene	Japan Society for Occupational Health (Japan, 5/2023) Absorbed through skin. OEL-M 8 hours: 20 ppm. OEL-M 8 hours: 87 mg/m³. Industrial Safety and Health Act (Japan, 6/2020) TWA 8 hours: 20 ppm.

procedures

Recommended monitoring: 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.

Appropriate engineering controls

: Use only with adequate ventilation. Use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits. The engineering controls also need to keep gas, vapor or dust concentrations below any lower explosive limits. Use explosion-proof ventilation equipment.

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.

Individual protection measures

	Japan	Page: 6/17
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Product code 000001187759

Date of issue 28 April 2025

Version 2

Product name SIGMAPRIME CSF BASE REDBROWN

8. Exposure controls/personal protection

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.

Eye protection Skin protection : Chemical splash goggles and face shield.

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.

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: 51°C (123.8°F)

Relative density : 1.79

Solubility(ies) :

Media Result

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.

Japan Page: 7/17

Product name SIGMAPRIME CSF BASE REDBROWN

10. Stability and reactivity

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 sulfur oxides halogenated compounds metal oxide/ oxides

11. Toxicological information

Information on toxicological effects

Acute toxicity

I DEO D			Exposure
LD50 Dermal	Rabbit	>2 g/kg	-
LD50 Oral	Rat	>2 g/kg	-
LC50 Inhalation Dusts and mists	Rat	>5.3 mg/l	4 hours
LD50 Oral	Rat	7.01 g/kg	-
LD50 Dermal	Rat - Male, Female	>2000 mg/kg	-
LD50 Oral	Rat - Male, Female	2189 mg/kg	-
LC50 Inhalation Dusts and mists	Rat	>5 mg/l	4 hours
LD50 Oral	Rat	10 g/kg	-
			4 hours
LD50 Dermal			-
			-
LC50 Inhalation Dusts and mists	Rat	>6.82 mg/l	4 hours
LD50 Dermal	Rabbit	>5000 mg/kg	-
LD50 Oral	Rat	>5000 mg/kg	-
LD50 Dermal	Rabbit	1.7 g/kg	-
	Rat		-
LC50 Inhalation Vapor	Rat		4 hours
			-
LD50 Oral			-
			4 hours
		0 0	-
			-
LC50 Inhalation Dusts and mists	Rat	>5.11 mg/l	4 hours
LD50 Dermal	Rat	>2000 mg/kg	_
LD50 Oral	Rat		-
L LL LLLLLLLLLLLLLLLL	LC50 Inhalation Dusts and mists LD50 Oral LD50 Dermal LD50 Oral LC50 Inhalation Dusts and mists LD50 Oral LC50 Inhalation Dusts and mists LD50 Dermal LD50 Oral LC50 Inhalation Dusts and mists LD50 Dermal LD50 Oral LD50 Dermal LD50 Oral LC50 Inhalation Vapor LD50 Dermal LC50 Inhalation Vapor LD50 Dermal LC50 Inhalation Vapor LD50 Oral LC50 Inhalation Vapor LD50 Dermal LC50 Inhalation Dusts and mists LD50 Oral LC50 Inhalation Dusts and mists	LC50 Inhalation Dusts and mists LD50 Oral LD50 Dermal LD50 Oral Rat - Male, Female Rat Rat Rat Rat Rat Rabbit Rat Rat LD50 Oral Rat LD50 Dermal LD50 Oral Rat LD50 Oral Rat Rat Rabbit Rat Rabbit Rat Rabbit Rat Rat Rabbit Rat Rat Rabbit Rat Rat Rat Rat Rat Rat Rat Rat Rat Ra	D50 Oral

Irritation/Corrosion

Japan Page: 8/17

11. Toxicological information

Product/ingredient name	Result	Species	Score	Exposure	Observation
Folycondensate of 4,4'- isopropylidenediphenol and 1-chloro-2,3-epoxypropane (liquid only)	Eyes - Mild irritant	Rabbit	-	100 mg	-
()	Eyes - Moderate irritant	Rabbit	_	-	-
	Skin - Moderate irritant	Rabbit	_	-	-
	Skin - Moderate irritant	Rabbit	-	24 hours 500 UI	-
	Skin - Severe irritant	Rabbit	-	24 hours 2	-
Xylene	Skin - Moderate irritant	Rabbit	-	mg 24 hours 500 mg	-

Sensitization

•	Route of exposure	Species	Result
Polycondensate of 4,4'- isopropylidenediphenol and 1-chloro-2,3-epoxypropane (liquid only)	skin	Mouse	Sensitizing

Mutagenicity

Not available.

Carcinogenicity

Not available.

Reproductive toxicity

Not available.

Teratogenicity

Not available.

Specific target organ toxicity (single exposure)

Name	Category	Route of exposure	Target organs
2-{[3-(Trimethoxysilyl)propoxy]methyl}oxirane	Category 3	-	Respiratory tract irritation
Diiron trioxide	Category 1	-	respiratory organs
benzyl alcohol	Category 1	-	central nervous system (CNS), kidneys
-	Category 3	-	Narcotic effects
Xylene	Category 1	-	central nervous system (CNS), kidneys, liver, respiratory organs
-	Category 3	-	Narcotic effects
Ethanol	Category 3	-	Respiratory tract irritation
-	Category 3	-	Narcotic effects
Ethyl Benzene	Category 3	-	Respiratory tract irritation
-	Category 3	-	Narcotic effects

Specific target organ toxicity (repeated exposure)

Japan Page: 9/17

Product code 000001187759 Date of issue 28 April 2025 Version 2
Product name SIGMAPRIME CSF BASE REDBROWN

11. Toxicological information

Name	Category	Route of exposure	Target organs
M ica	Category 1	-	respiratory organs
Diiron trioxide	Category 1	-	respiratory organs
benzyl alcohol	Category 1	-	central nervous system (CNS)
Titanium dioxide (excluding nanoparticle)	Category 1	-	respiratory organs
Xylene	Category 1	-	nervous system, respiratory organs
Ethanol	Category 1	-	liver
-	Category 2	-	central nervous system (CNS)
Ethyl Benzene	Category 1	-	hearing organs, nervous system

Aspiration hazard

Name	Result
	ASPIRATION HAZARD - Category 1
Ethyl Benzene	ASPIRATION HAZARD - Category 1

Information on the likely routes of exposure

: Not available.

Potential acute health effects

Eye contact : Causes serious eye damage.

Inhalation : No known significant effects or critical hazards.

Skin contact: May cause damage to organs following a single exposure in contact with skin.

Causes skin irritation. May cause an allergic skin reaction.

Ingestion : May cause damage to organs following a single exposure if swallowed.

Symptoms related to the physical, chemical and toxicological characteristics

Eye contact: Adverse symptoms may include the following:

pain 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:

pain or irritation

redness

blistering may occur reduced fetal weight increase in fetal deaths skeletal malformations

Ingestion: Adverse symptoms may include the following:

stomach pains reduced fetal weight increase in fetal deaths skeletal malformations

<u>Delayed and immediate effects and also chronic effects from short and long term exposure</u>

Short term exposure

Japan Page: 10/17

Product name SIGMAPRIME CSF BASE REDBROWN

11. Toxicological information

Potential immediate

effects

: Not available.

Potential delayed effects

: Not available.

Long term exposure

Potential immediate

: Not available.

effects

Potential delayed effects : Not available.

Potential chronic health effects

General: May cause damage to organs through prolonged or repeated exposure. 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 : 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)
SIGMAPRIME CSF BASE REDBROWN	12604.9	4028.6	N/A	N/A	N/A
Polycondensate of 4,4'-isopropylidenediphenol and	2500	2500	N/A	N/A	N/A
1-chloro-2,3-epoxypropane (liquid only)					
2-{[3-(Trimethoxysilyl)propoxy]methyl}oxirane	7010	N/A	N/A	N/A	N/A
1,6-Hexanediol, reaction products with	2189	2500	N/A	N/A	N/A
epichlorohydrin					
Diiron trioxide	10000	N/A	N/A	N/A	N/A
benzyl alcohol	1200	1100	N/A	N/A	N/A
Xylene	4300	1700	N/A	11	N/A
Ethanol	7000	17100	N/A	124.7	N/A
Ethyl Benzene	3500	17800	N/A	17.8	N/A
N,N'-ethane-1,2-diylbis(12-hydroxyoctadecan- 1-amide)	2500	2500	N/A	N/A	N/A

Other 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.

12. Ecological information

Toxicity

Product/ingredient name	Result	Species	Exposure
Isopropylidenedicyclohexanol, oligomeric reaction products with 1-chloro-2,3-epoxypropane	LC50 11.5 mg/l	Fish	96 hours
Polycondensate of 4,4'- isopropylidenediphenol and 1-chloro-2,3-epoxypropane (liquid only)	Chronic NOEC 0.3 mg/l	Daphnia	21 days
2-{[3-(TrimethoxysilyI)	Acute EC50 255 mg/l Fresh water	Algae	72 hours

Japan Page: 11/17

Product code 000001187759	Date of issue 28 April 2025	Version 2	
Product name SIGMAPRIME CSF BASE REDBROWN			

12. Ecological information

propoxy]methyl}oxirane			
	Acute EC50 473 mg/l	Daphnia	48 hours
	Acute LC50 55 mg/l	Fish	96 hours
1,6-Hexanediol, reaction	NOEC 15 mg/l	Daphnia	21 days
products with epichlorohydrin	_		
	Acute EC50 47 mg/l Fresh water	Daphnia	48 hours
	Acute LC50 30 mg/l Fresh water	Fish	96 hours
Diiron trioxide	Acute EC50 >100 mg/l	Daphnia	48 hours
Titanium dioxide (excluding nanoparticle)	Acute LC50 >100 mg/l Fresh water	Daphnia - <i>Daphnia magna</i>	48 hours
Ethanol	Acute EC50 7640 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	-
N,N'-ethane-1,2-diylbis	Acute EC50 29 to 43 mg/l	Algae - Pseudokirchneriella	72 hours
(12-hydroxyoctadecan-		subcapitata	
1-amide)		,	
,	Acute EC50 94 mg/l	Daphnia - <i>Daphnia magna</i>	48 hours

Persistence/degradability

Product/ingredient name	Test	Result	Dose	Inoculum
Polycondensate of 4,4'- isopropylidenediphenol and 1-chloro-2,3-epoxypropane (liquid only)	OECD 301F	5 % - 28 days	-	-
2-{[3-(Trimethoxysilyl) propoxy]methyl}oxirane	-	37 % - Not readily - 28 days	-	-
1,6-Hexanediol, reaction products with epichlorohydrin	OECD Ready Biodegradability - Closed Bottle Test	47 % - Not readily - 28 days	-	-
Ethyl Benzene	-	79 % - Readily - 10 days	-	-
N,N'-ethane-1,2-diylbis (12-hydroxyoctadecan- 1-amide)	-	63 % - 28 days	-	-

Product/ingredient name	Aquatic half-life	Photolysis	Biodegradability
olycondensate of 4,4'- isopropylidenediphenol and 1-chloro-2,3-epoxypropane (liquid only)	-	-	Not readily
2-{[3-(TrimethoxysilyI) propoxy]methyl}oxirane	-	-	Not readily
1,6-Hexanediol, reaction products with epichlorohydrin	-	-	Not readily
benzyl alcohol	-	-	Readily
Xylene	-	-	Readily
Ethanol	-	-	Readily
Ethyl Benzene	-	-	Readily
N,N'-ethane-1,2-diylbis (12-hydroxyoctadecan- 1-amide)	-	-	Readily

Bioaccumulative potential

Japan Sapan Sa	Page: 12/17
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12. Ecological information

Product/ingredient name	LogPow	BCF	Potential
Folycondensate of 4,4'- isopropylidenediphenol and 1-chloro-2,3-epoxypropane (liquid only)	2.64 to 3.78	31	Low
1,6-Hexanediol, reaction products with epichlorohydrin	0.822	-	Low
benzyl alcohol	0.87	-	Low
Xylene	3.12	7.4 to 18.5	Low
Ethanol	-0.35	-	Low
Ethyl Benzene	3.6	79.43	Low
N,N'-ethane-1,2-diylbis	>6	-	High
(12-hydroxyoctadecan- 1-amide)			

Mobility in soil

Soil/Water partition

coefficient

: 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	IATA
UN number	UN1263	UN1263	UN1263
UN proper shipping name	PAINT	PAINT	PAINT
Transport hazard class(es)	3	3	3
Packing group	III	III	III
Environmental hazards	No.	No.	No.

Japan Page: 13/17

Product code 000001187759 Date of issue 28 April 2025 Version 2 **Product name SIGMAPRIME CSF BASE REDBROWN**

14. Transport information

Marine pollutant	Not applicable.	Not applicable.	Not applicable.	Ī
substances				ĺ

Additional information

UN : None identified. : None identified. **IMDG IATA** : None identified.

Special precautions 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.

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 II petroleums	III	Flammable - Keep Fire Away	1000 L

Pollutant Release and Transfer Registers (PRTR)

Ingredient name			
rimethoxy-[3-(oxiran-2-ylmethoxy)propyl]silane	8.0	Class 1	693

Industrial Safety and Health Act

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

None of the components are listed.

Substance(s) requiring labelling

Ingredient name	%	Status	Reference number
olycondensation products of 4,4'-isopropylidenediphenol and 1-chloro-2,3-epoxypropane (liquid only)(2025-04)	≥10 - ≤20	Listed	2-169 (2025-04)
Iron oxide	≤10	Listed	192, 2-624 (2025-04)
Xylene	≤10	Listed	136, 2-426 (2025-04)
Ethanol	≤10	Listed	61, 2-205 (2025-04)
Ethylbenzene	≤10	Listed	70, 2-247 (2025-04)

Chemicals requiring notification

Page: 14/17 **Japan**

Product code 000001187759 Date of issue 28 April 2025 Version 2 **Product name SIGMAPRIME CSF BASE REDBROWN**

15. Regulatory information

Ingredient name	%	Status	Reference number
Folycondensation products of 4,4'-isopropylidenediphenol and 1-chloro-2,3-epoxypropane (liquid only)(2025-04)	≥10 - ≤20	Listed	2-169 (2025-04)
Iron oxide	≤10	Listed	192, 2-624 (2025-04)
Titanium(IV) oxide	≤10	Listed	191, 2-623 (2025-04)
Xylene	≤10	Listed	136, 2-426 (2025-04)
Ethanol	≤10	Listed	61, 2-205 (2025-04)
Ethylbenzene	≤10	Listed	70, 2-247 (2025-04)

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

None of the components are listed.

Mutagen

Ingredient name	%	Status	Reference
			number
sphenol A type epoxy resin intermediate	≥10 - ≤20	Listed	110

Corrosive liquid : Not listed

Occupational Safety and

Health Law

: Inflammable, Combustible

: Not listed

: Not listed

Regulations on the

Prevention of Tetraalkyl

Lead Poisoning

Harmful Substances

Subject to Obtaining Permission for

Manufacturing

Harmful Substances,

Prohibited for Manufacturing

: Not listed

ISHL Enforcement Order

Appendix 1 - Dangerous

Substances

: Inflammable, Combustible

: Not listed Lead regulation

poisoning prevention

Organic solvents : Not applicable.

Poisonous and Deleterious Substances

None of the components are listed.

Chemical Substances Control Law (CSCL)

Ingredient name	%		Reference number
olycondensate of 4,4'-isopropylidenediphenol and 1-chloro-2,3-epoxypropane (liquid only)	≥10 - ≤20	Priority assessment	87
Xylene Xylene	≤10	Priority assessment	125

Page: 15/17 **Japan**

Product code 000001187759 Version 2 Date of issue 28 April 2025

Product name SIGMAPRIME CSF BASE REDBROWN

15. Regulatory information

High Pressure Gas Control : Not available.

Law

Explosives Control Law

None of the components are listed.

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 List of Specially Controlled

Industrial Waste

: Group 2B : Not listed

Japan inventory : At least one component is not listed.

Road law : Not available.

16. Other information

History

Date of issue/Date of : 28 April 2025

revision

Date of previous issue : 2/25/2024

Version : 2 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

Indicates information that has changed from previously issued version.

Notice to reader

Japan Page: 16/17

Product name SIGMAPRIME CSF BASE REDBROWN

16. Other information

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.

Japan Page: 17/17