# SAFETY DATA SHEET

#### SIGMAPRIME 700 HSE BASE REDBROWN



Date of issue 19 April 2022

**Version 3** 

# 1. Product and company identification

Product name : SIGMAPRIME 700 HSE BASE REDBROWN

 Product code
 : 000001099854

 Other means of
 : 00317121

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

Tel: +81 78 574 2777 Fax: +81 78 576 0035

**Emergency telephone** 

number

: 078 574 2777

# 2. Hazards identification

GHS Classification : NAMMABLE LIQUIDS - Category 3

SKIN IRRITATION - Category 2 EYE IRRITATION - Category 2A SKIN SENSITIZATION - Category 1

GERM CELL MUTAGENICITY - Category 2

CARCINOGENICITY - Category 1A

TOXIC TO REPRODUCTION - Category 1B

SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) - Category 1 SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) - Category 1 HAZARDOUS TO THE AQUATIC ENVIRONMENT - ACUTE HAZARD - Category 2

HAZARDOUS TO THE AQUATIC ENVIRONMENT - CHRONIC HAZARD -

Category 3

**GHS label elements** 

Hazard pictograms :







Signal word : Danger

Japan Page: 1/17

#### **Product name SIGMAPRIME 700 HSE BASE REDBROWN**

# 2. Hazards identification

**Hazard statements** 

: Fammable liquid and vapor.

Causes skin irritation.

May cause an allergic skin reaction.

Causes serious eye irritation.

Suspected of causing genetic defects.

May cause cancer.

May damage fertility or the unborn child.

Causes damage to organs. (central nervous system (CNS), kidneys, liver,

respiratory organs)

Causes damage to organs through prolonged or repeated exposure. (immune

system, kidneys, nervous system, respiratory organs)

Toxic to aquatic life.

Harmful 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

: 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 ON SKIN: Wash with plenty of water. If skin irritation or rash occurs: Get medical advice or attention. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice or attention.

**Storage** 

: Store locked up.

**Disposal** 

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

result in classification

Other hazards which do not : Prolonged or repeated contact may dry skin and cause irritation. Contains a substance that may emit formaldehyde if stored beyond its shelf life and/or during cure at curing temperatures greater than 60C (140F).

# 3. Composition/information on ingredients

Substance/mixture Mixture

#### CAS number/other identifiers

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

Ingredient name	%	CAS number	CSCL
Talc containing no asbestos or quartz	20 - <25	14807-96-6	Not available.
Epoxy Resin (700 <mw<=1100)< td=""><td>15 - &lt;20</td><td>25036-25-3</td><td>Not available.</td></mw<=1100)<>	15 - <20	25036-25-3	Not available.
crystalline silica, respirable powder (>10 microns)	15 - <20	14808-60-7	1-548
Xylene	10 - <12.5	1330-20-7	3-3; 3-60
Diiron trioxide	5 - <7	1309-37-1	1-357; 5-5188
aluminium metal	3 - <5	7429-90-5	Not available.
Phenol, methylstyrenated	3 - <5	68512-30-1	Not available.
Hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, < 2% aromatics	2 - <3	64742-48-9	Not available.
oxirane, mono[(C12-14-alkyloxy)methyl] derivs	2 - <3	68609-97-2	Not available.
Propylene glycol monomethyl ether	1 - <2	107-98-2	2-404; 7-97
crystalline silica (quartz)	1 - <2	14808-60-7	1-548
<u> </u>			

Page: 2/17 Japan

Product code 000001099854 Date of issue 19 April 2022 Version 3
Product name SIGMAPRIME 700 HSE BASE REDBROWN

# 3. Composition/information on ingredients

ethyl benzene	1 - <2	100-41-4	3-28; 3-60
12-hydroxyoctadecanoic acid, reaction products	1 - <2	220926-97-6	Not available.
with 1,3-benzenedimethanamine and			
hexamethylenediamine			
Urea, polymer with formaldehyde, butylated	1 - <2	68002-19-7	Not available.
Cashew, nutshell liq.	1 - <2	8007-24-7	Not available.
isobutyl alcohol	1 - <2	78-83-1	2-3049
Solvent naphtha (petroleum), heavy arom	0.2 - < 0.5	64742-94-5	Not available.
o-Xylene	0.2 - < 0.5	95-47-6	3-3; 3-60

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**: Remove contact lenses, irrigate copiously with clean, fresh water, holding the

eyelids apart for at least 10 minutes and seek immediate medical advice.

**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 irritation.

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

**Skin contact**: Causes damage to organs following a single exposure in contact with skin. Causes

skin irritation. Defatting to the skin. May cause an allergic skin reaction.

**Ingestion** : Causes damage to organs following a single exposure if swallowed.

#### Over-exposure signs/symptoms

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

pain or irritation

watering redness

**Inhalation** : Adverse symptoms may include the following:

reduced fetal weight increase in fetal deaths skeletal malformations

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

irritation redness dryness cracking

reduced fetal weight increase in fetal deaths skeletal malformations

Japan Page: 3/17

Product code 000001099854

Date of issue 19 April 2022

Version 3

**Product name SIGMAPRIME 700 HSE BASE REDBROWN** 

# 4. First aid measures

Ingestion

: Adverse symptoms may include the following:

reduced fetal weight increase in fetal deaths skeletal malformations

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

Notes to physician

: In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.

**Specific treatments Protection of first-aiders**  No specific treatment.

No action shall be taken involving any personal risk or without suitable training. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Wash contaminated clothing thoroughly with water before removing it, or wear gloves.

See toxicological information (Section 11)

# 5. Fire-fighting measures

# **Extinguishing media**

Suitable extinguishing

media

: Use dry chemical, CO<sub>2</sub>, water spray (fog) or foam.

**Unsuitable extinguishing** 

media

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. 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 nitrogen oxides

: Do not use water jet.

halogenated compounds metal oxide/oxides Formaldehyde.

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. Avoid breathing vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.

> Japan Page: 4/17

# 6. Accidental release measures

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.

### 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.

> Japan Page: 5/17

# 8. Exposure controls/personal protection

# **Control parameters**

**Occupational exposure limits** 

Ingredient name	Exposure limits
▼alc containing no asbestos or quartz	Japan Society for Occupational Health (Japan, 3/2021).  OEL-M: 0.5 mg/m³ 8 hours. Form: Respirable dust (Class 1 Dust)  OEL-M: 2 mg/m³ 8 hours. Form: Total dust (Class 1 Dust)
crystalline silica, respirable powder (>10 microns)	Japan Society for Occupational Health (Japan, 3/2021).  OEL-C: 0.03 mg/m³ Form: Respirable dust
Xylene	ISHL (Japan, 6/2020).  TWA: 50 ppm 8 hours.  Japan Society for Occupational Health (Japan, 3/2021).  OEL-M: 50 ppm 8 hours.  OEL-M: 217 mg/m³ 8 hours.
Diiron trioxide	Japan Society for Occupational Health (Japan, 3/2021).  OEL-M: 1 mg/m³ 8 hours. Form: Respirable dust (Class 2 Dust)  OEL-M: 4 mg/m³ 8 hours. Form: Total dust (Class 2 Dust)
aluminium metal	Japan Society for Occupational Health (Japan, 3/2021).  OEL-M: 0.5 mg/m³ 8 hours. Form: Respirable dust (Class 1 Dust)  OEL-M: 2 mg/m³ 8 hours. Form: Total dust (Class 1 Dust)
crystalline silica (quartz)	Japan Society for Occupational Health (Japan, 3/2021).  OEL-C: 0.03 mg/m³ Form: Respirable dust
ethyl benzene	Japan Society for Occupational Health (Japan, 3/2021).  OEL-M: 217 mg/m³ 8 hours.  OEL-M: 50 ppm 8 hours.  ISHL (Japan, 6/2020).  TWA: 20 ppm 8 hours.
isobutyl alcohol	Japan Society for Occupational Health (Japan, 3/2021).  OEL-M: 150 mg/m³ 8 hours.  OEL-M: 50 ppm 8 hours.  ISHL (Japan, 6/2020).  TWA: 50 ppm 8 hours.
o-Xylene	Japan Society for Occupational Health (Japan, 3/2021).  OEL-M: 217 mg/m³ 8 hours.  OEL-M: 50 ppm 8 hours.  ISHL (Japan, 6/2020).  TWA: 50 ppm 8 hours.

Japan Page: 6/17

# 8. Exposure controls/personal protection

# procedures

Recommended monitoring: 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.

### **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**

### **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.

# **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.

> Japan Page: 7/17

**Product name SIGMAPRIME 700 HSE BASE REDBROWN** 

# 9. Physical and chemical properties

**Appearance** 

Physical state : Liquid.

Color : Brownish-red.
Odor : Aromatic.

**Boiling point** : >37.78°C (>100°F)

Flash point : Closed cup: 37°C (98.6°F)

Relative density : 1.49

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

**Viscosity** : 60 - 100 s (ISO 6mm)

# 10. Stability and reactivity

**Reactivity**: No specific test data related to reactivity available for this product or its ingredients.

**Chemical stability**: The product is stable.

Possibility of hazardous reactions

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

**Conditions to avoid** : When exposed to high temperatures may produce hazardous decomposition

products.

**Incompatible materials**: Keep away from the following materials to prevent strong exothermic reactions:

oxidizing agents, strong alkalis, strong acids.

Hazardous decomposition

products

: Depending on conditions, decomposition products may include the following

materials: carbon oxides nitrogen oxides halogenated compounds Formaldehyde.

metal oxide/oxides

# 11. Toxicological information

# Information on toxicological effects

### **Acute toxicity**

Product/ingredient name	Result	Species	Dose	Exposure
poxy Resin (700 <mw <="1100)&lt;/td"><td>LD50 Dermal</td><td>Rat</td><td>&gt;2000 mg/kg</td><td>-</td></mw>	LD50 Dermal	Rat	>2000 mg/kg	-
	LD50 Oral	Rat	>2000 mg/kg	-
Xylene	LD50 Dermal	Rabbit	1.7 g/kg	-
	LD50 Oral	Rat	4.3 g/kg	-
Diiron trioxide	LC50 Inhalation Dusts and mists	Rat	>5 mg/l	4 hours
	LD50 Oral	Rat	10 g/kg	-
aluminium metal	LC50 Inhalation Dusts and mists	Rat	>5 mg/l	4 hours
	LD50 Oral	Rat	>15900 mg/kg	-
Phenol, methylstyrenated	LD50 Dermal	Rabbit	>2000 mg/kg	-
	LD50 Oral	Rat	>2000 mg/kg	-
Hydrocarbons, C10-C13, n-	LD50 Dermal	Rabbit	>5000 mg/kg	-
alkanes, isoalkanes, cyclics,				
< 2% aromatics				
	LD50 Oral	Rat	>6 g/kg	-
oxirane, mono[ (C12-14-alkyloxy)methyl] derivs	LD50 Oral	Rat	17100 mg/kg	-

Japan Page: 8/17

Product code 000001099854	Date of issue 19 April 2022	Version 3
Product name SIGMAPRIME 700 HSE BASE REDBROWN		

# 11. Toxicological information

Propylene glycol	LC50 Inhalation Vapor	Rat	>7000 ppm	6 hours
monomethyl ether				
	LD50 Dermal	Rabbit	13 g/kg	-
	LD50 Oral	Rat	5.2 g/kg	-
ethyl benzene	LC50 Inhalation Vapor	Rat	17.8 mg/l	4 hours
	LD50 Dermal	Rabbit	17.8 g/kg	-
	LD50 Oral	Rat	3.5 g/kg	-
12-hydroxyoctadecanoic	LC50 Inhalation Dusts and mists	Rat	3.56 mg/l	4 hours
acid, reaction products with				
1,3-benzenedimethanamine				
and hexamethylenediamine				
	LD50 Dermal	Rat	>2000 mg/kg	-
	LD50 Oral	Rat	>2000 mg/kg	-
isobutyl alcohol	LC50 Inhalation Vapor	Rat	24.6 mg/l	4 hours
-	LD50 Dermal	Rabbit	2460 mg/kg	-
	LD50 Oral	Rat	2830 mg/kg	-
Solvent naphtha (petroleum),	LC50 Inhalation Dusts and mists	Rat	>5.2 mg/l	4 hours
heavy arom				
	LD50 Oral	Rat	>5 g/kg	-
o-Xylene	LC50 Inhalation Vapor	Rat	27124 mg/m <sup>3</sup>	4 hours
	LD50 Dermal	Rabbit	12126 mg/kg	-
	LD50 Oral	Rat	3523 mg/kg	-

# **Irritation/Corrosion**

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

# **Sensitization**

•	Route of exposure	Species	Result
oxirane, mono[ (C12-14-alkyloxy)methyl] derivs	skin	Guinea pig	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
ralc containing no asbestos or quartz Xylene	Category 1 Category 1	-	respiratory organs central nervous system (CNS), kidneys, liver, respiratory organs
Diiron trioxide aluminium metal	Category 3 Category 1 Category 1	-	Narcotic effects respiratory organs respiratory organs

Japan Page: 9/17

Product code 000001099854 Date of issue 19 April 2022 Version 3
Product name SIGMAPRIME 700 HSE BASE REDBROWN

# 11. Toxicological information

Category 3	-	Narcotic effects
Category 3	-	Respiratory tract
		irritation
Category 3		Narcotic effects
Category 3	-	Respiratory tract
		irritation
Category 3		Narcotic effects
Category 3	-	Respiratory tract
		irritation
Category 3		Narcotic effects
Category 1	-	central nervous
		system (CNS)
Category 3		Respiratory tract
		irritation
Category 3		Narcotic effects
	Category 3 Category 3 Category 3 Category 3 Category 3 Category 1 Category 3	Category 3 Category 3 Category 3 Category 3 Category 3 Category 3 Category 1 Category 3

# Specific target organ toxicity (repeated exposure)

Name	Category	Route of exposure	Target organs
√alc containing no asbestos or quartz	Category 1	-	respiratory organs
Xylene	Category 1	-	nervous system, respiratory organs
Diiron trioxide	Category 1	-	respiratory organs
aluminium metal	Category 1	-	respiratory organs
crystalline silica (quartz)	Category 1	-	immune system, kidneys, respiratory organs
ethyl benzene	Category 2	-	hearing organs
12-hydroxyoctadecanoic acid, reaction products with 1,3-benzenedimethanamine and hexamethylenediamine	Category 2	inhalation	lungs

#### **Aspiration hazard**

Name	Result
Xylene Hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, < 2% aromatics	ASPIRATION HAZARD - Category 1 ASPIRATION HAZARD - Category 1
ethyl benzene o-Xylene	ASPIRATION HAZARD - Category 1 ASPIRATION HAZARD - Category 1

Information on the likely routes of exposure

: Not available.

# Potential acute health effects

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

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

**Skin contact**: Causes damage to organs following a single exposure in contact with skin. Causes

skin irritation. Defatting to the skin. May cause an allergic skin reaction.

**Ingestion** : Causes 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 or irritation watering redness

Japan Page: 10/17

**Product name SIGMAPRIME 700 HSE BASE REDBROWN** 

# 11. Toxicological information

**Inhalation** : Adverse symptoms may include the following:

reduced fetal weight increase in fetal deaths skeletal malformations

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

irritation redness dryness cracking

reduced fetal weight increase in fetal deaths skeletal malformations

Ingestion : Adverse symptoms may include the following:

reduced fetal weight increase in fetal deaths skeletal malformations

### Delayed and immediate effects and also chronic effects from short and long term exposure

**Short term exposure** 

Potential immediate

: Not available.

effects

Potential delayed effects : Not available.

Long term exposure

**Potential immediate** 

effects

: Not available.

Potential delayed effects : Not available.

Potential chronic health effects

General : Causes damage to organs through prolonged or repeated exposure. Prolonged or

repeated contact can defat the skin and lead to irritation, cracking and/or dermatitis. 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 700 HSE BASE REDBROWN	8264.8	3753.4	N/A	54.3	186.8
Epoxy Resin (700 <mw<=1100)< td=""><td>2500</td><td>2500</td><td>N/A</td><td>N/A</td><td>N/A</td></mw<=1100)<>	2500	2500	N/A	N/A	N/A
Xylene	4300	1700	N/A	11	N/A
Diiron trioxide	10000	N/A	N/A	N/A	N/A
Phenol, methylstyrenated	2500	2500	N/A	N/A	N/A
oxirane, mono[(C12-14-alkyloxy)methyl] derivs	17100	N/A	N/A	N/A	N/A
Propylene glycol monomethyl ether	5200	13000	N/A	11	N/A
ethyl benzene	3500	17800	N/A	17.8	N/A
12-hydroxyoctadecanoic acid, reaction products with 1,3-benzenedimethanamine and hexamethylenediamine	2500	2500	N/A	N/A	3.56
Cashew, nutshell liq.	500	1100	N/A	N/A	N/A
isobutyl alcohol	2830	2460	N/A	11	N/A

Japan Page: 11/17

Product code 000001099854  Product name SIGMAPRIME 700 HSE BASE REDBROWN	Date of issue 19 April 2022	Version 3
11 Toyicological information		

o-Xylene	3523	12126	N/A	11	N/A

### Other information

Prolonged or repeated contact may dry skin and cause irritation. Sanding and grinding dusts may be harmful if inhaled. Repeated exposure to high vapor concentrations may cause irritation of the respiratory system and permanent brain and nervous system damage. Inhalation of vapor/aerosol concentrations above the recommended exposure limits causes headaches, drowsiness and nausea and may lead to unconsciousness or death. Contains a substance that may emit formaldehyde if stored beyond its shelf life and/or during cure at curing temperatures greater than 60C ( 140F). Avoid contact with skin and clothing.

# 12. Ecological information

# **Toxicity**

Product/ingredient name	Result	Species	Exposure
<b> ∑</b> iiron trioxide	Acute EC50 >100 mg/l	Daphnia	48 hours
oxirane, mono[	LC50 >100 mg/l	Fish	96 hours
(C12-14-alkyloxy)methyl] derivs			
Propylene glycol monomethyl ether	Acute LC50 23300 mg/l	Daphnia	48 hours
,	Acute LC50 >4500 mg/l Fresh water	Fish	96 hours
ethyl benzene	Acute EC50 1.8 mg/l Fresh water	Daphnia	48 hours
	Chronic NOEC 1 mg/l Fresh water	Daphnia - Ceriodaphnia dubia	-
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	Àlgae - Pseudokirchneriella subcapitata	72 hours
	Chronic NOEC ≥50 mg/l	Daphnia - Daphnia magna (Water flea)	21 days
isobutyl alcohol	Acute EC50 1100 mg/l	Daphnia ´	48 hours
Solvent naphtha (petroleum), heavy arom	NOEL 0.48 mg/l Fresh water	Daphnia	21 days

# Persistence/degradability

Product/ingredient name	Test	Result		Dose	Inoculum
ethyl benzene	-	79 % - Read	dily - 10 days	-	-
12-hydroxyoctadecanoic	OECD 301D	9 % - Not re	adily - 29 days	-	-
acid, reaction products with	Ready				
1,3-benzenedimethanamine	Biodegradability -				
and hexamethylenediamine	Closed Bottle				
•	Test				
o-Xylene	OECD 301F	94 % - Read	lily - 28 days	-	-
				•	i I

Product/ingredient name	Aquatic half-life	Photolysis	Biodegradability
▼ylene	-	-	Readily
ethyl benzene	-	-	Readily
o-Xylene	-	-	Readily

# **Bioaccumulative potential**

Japan	Page: 12/17
- apan	

#### **Product name SIGMAPRIME 700 HSE BASE REDBROWN**

# 12. Ecological information

Product/ingredient name	LogPow	BCF	Potential
✓ylene	3.12	7.4 to 18.5	low
Phenol, methylstyrenated	3.627	-	low
oxirane, mono[	3.77	-	low
(C12-14-alkyloxy)methyl]			
derivs			
Propylene glycol	<1	-	low
monomethyl ether			
ethyl benzene	3.6	79.43	low
12-hydroxyoctadecanoic	>6	-	high
acid, reaction products with			
1,3-benzenedimethanamine			
and hexamethylenediamine			
Cashew, nutshell liq.	>4.78	-	high
isobutyl alcohol	1	-	low
1 (1 //	2.8 to 6.5	-	high
heavy arom			
o-Xylene	3.12	14.13	low

#### **Mobility in soil**

Soil/water partition coefficient (Koc)

Mobility

: Not available.

: 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

Japan Page: 13/17

Product code 000001099854	Date of issue 19 April 2022	Version 3
Product name SIGMAPRIME 700 HSE BASE REDBROWN		

# 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.
Marine pollutant substances	Not applicable.	Not applicable.	Not applicable.

### **Additional information**

UN : This class 3 viscous liquid is not subject to regulation in packagings up to 450 L according to

2.3.2.5.1.

IMDG : This class 3 viscous liquid is not subject to regulation in packagings up to 450 L according to

2.3.2.5.

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	%	Status	Reference number
· · · · · · ·	≥10 - ≤20	Class 1	80
	≤10	Class 1	53

# **ISHL**

### Ordinance on the prevention of the hazard due to specified chemical substances

Ingredient name	%		Reference number
Ethyl benzene		Group-2 Substances under Supervision	3-3

# Substances requiring labelling

Japan Sapan
-------------

Product code 000001099854 Date of issue 19 April 2022 **Version 3 Product name SIGMAPRIME 700 HSE BASE REDBROWN** 

# 15. Regulatory information

Ingredient name	%	Status	Reference number
<b>⊘</b> rystalline silica	≥10 - ≤20	Listed	165-2
Xylene	≥10 - ≤20	Listed	136
Iron oxide; Diiron(III) trioxide	≤10	Listed	192
Propylene glycol monomethyl ether; 2-Propanol,	≤10	Listed	496
1-methoxy-			
Ethylbenzene	≤10	Listed	70
Butanol	≤10	Listed	477

# **Chemicals requiring notification**

Ingredient name	%	Status	Reference number
☑rystalline silica Xylene Iron oxide; Diiron(III) trioxide	≥10 - ≤20 ≥10 - ≤20 ≤10	Listed Listed Listed	165-2 136 192
Propylene glycol monomethyl ether; 2-Propanol, 1-methoxy- Ethylbenzene Butanol	≤10 ≤10 ≤10	Listed Listed Listed	496 70 477

# Carcinogen

Ingredient name	%		Reference number
ethylbenzene	≤10	Listed	-

### Mutagen

None of the components are listed.

**Corrosive liquid** : Not listed

**Occupational Safety and** 

**Health Law** 

: Inflammable, Combustible

Regulations on the **Prevention of Tetraalkyl** 

**Lead Poisoning** 

**Harmful Substances** 

**Subject to Obtaining Permission for** 

**Manufacturing** 

Harmful Substances, **Prohibited for** 

Manufacturing

: Not listed

: Not listed

: Not listed

: Inflammable, Combustible **Dangerous Substances Lead regulation** : Not listed

**Organic solvents** : Class 2

poisoning prevention

# **Poisonous and Deleterious Substances**

None of the components are listed.

**Chemical Substances Control Law (CSCL)** 

Page: 15/17 **Japan** 

**Product name SIGMAPRIME 700 HSE BASE REDBROWN** 

# 15. Regulatory information

Ingredient name	%	Status	Reference number
<b>X</b> ylene	10.573	Priority assessment	125
Ethylbenzene	1.8821	Priority assessment	50
1-Butanol	0.54636	Priority assessment	124
Xylene	0.2127	Priority assessment	125
Toluene	0.090103	Priority assessment	46
Naphthalene	0.025	Priority assessment	76
Formaldehyde	0.012762	Priority assessment	25
Cumene	0.01	Priority assessment	126
1,2,4-Trimethylbenzene	0.00845	Priority assessment	49
1,3,5-Trimethylbenzene	0.0045	Priority assessment	201
Phenol	0.00319	Priority assessment	62
Isopropenylbenzene; alpha-Methylstyrene	0.00319	Priority assessment	48
Benzene	0.001945	Priority assessment	45
2-Butoxyethanol	0.000956	Priority assessment	109

**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 : Group 1
List of Specially Controlled : Not listed

**Industrial Waste** 

Japan inventory : At least one component is not listed.

Road law : Not available.

# 16. Other information

**History** 

Date of issue/Date of : 19 April 2022

revision

Date of previous issue : 6/28/2021

Version : 3
Prepared by : EHS

**Key to abbreviations** : ADN = European Provisions concerning the International Carriage of Dangerous

Goods by Inland Waterway

ADR = The European Agreement concerning the International Carriage of

Dangerous Goods by Road ATE = Acute Toxicity Estimate BCF = Bioconcentration Factor

GHS = Globally Harmonized System of Classification and Labelling of Chemicals

Japan Page: 16/17

**Product name SIGMAPRIME 700 HSE BASE REDBROWN** 

# 16. Other information

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**

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