# SAFETY DATA SHEET

#### SIGMAFAST 370 BASE RAL 1013



Date of issue 2 February 2020

Version 17

### 1. Product and company identification

Product name : SIGMAFAST 370 BASE RAL 1013

Product code : 00312193 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 : FLAMMABLE LIQUIDS - Category 2

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

GERM CELL MUTAGENICITY - Category 2

**CARCINOGENICITY - Category 1A** 

TOXIC TO REPRODUCTION (Fertility) - Category 1A TOXIC TO REPRODUCTION (Unborn child) - Category 1A

SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (central nervous

system (CNS), kidneys, liver, respiratory system) - Category 2

SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) (central nervous system (CNS), immune system, kidneys, nervous system, respiratory system) -

Category 1

AQUATIC HAZARD (ACUTE) - Category 3 AQUATIC HAZARD (LONG-TERM) - Category 3

**GHS label elements** 

Hazard pictograms







Signal word : Danger

Japan Page: 1/15

### 2. Hazards identification

#### **Hazard statements**

: Highly flammable liquid and vapor.

Causes serious eve irritation.

Causes skin irritation.

May cause an allergic skin reaction.

May cause cancer.

May damage fertility or the unborn child. Suspected of causing genetic defects.

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

respiratory system)

Causes damage to organs through prolonged or repeated exposure. (central nervous system (CNS), immune system, kidneys, nervous system, respiratory system)

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. Wear eye or face protection. Wear protective clothing. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Use explosion-proof electrical, ventilating, lighting and all material-handling equipment. Use only non-sparking tools. Take precautionary measures against static discharge. Keep container tightly closed. Avoid release to the environment. Do not breathe vapor. Do not eat, drink or smoke when using this product. Wash hands thoroughly after handling. Contaminated work clothing should not be allowed out of the workplace.

#### Response

: Get medical attention if you feel unwell. IF exposed or concerned: Call a POISON CENTER or physician. IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower. IF ON SKIN: Wash with plenty of soap and water. Take off contaminated clothing and wash it before reuse. If skin irritation or rash occurs: Get medical 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 attention.

# Storage Disposal

- : Store locked up. Store in a well-ventilated place. Keep cool.
- : Dispose of contents and container in accordance with all local, regional, national and international regulations.

# Other hazards which do not result in classification

: Prolonged or repeated contact may dry skin and cause irritation.

# 3. Composition/information on ingredients

Substance/mixture : Mixture

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

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

%	CAS number	ENCS
25 - <50	7727-43-7	1-89
15 - <20	14808-60-7	1-548
10 - <12.5	13463-67-7	1-558
7 - <10	108-10-1	2-542
7 - <10	25036-25-3	Not available.
7 - <10	1330-20-7	3-3; 3-60
2 - <3	25068-38-6	(7)-1279
2 - <3	14808-60-7	1-548
1 - <2	100-41-4	3-28; 3-60
0.5 - <1	64-17-5	2-202
0.2 - < 0.5	2210-79-9	3-574; 3-594
	25 - <50 15 - <20 10 - <12.5 7 - <10 7 - <10 2 - <3 2 - <3 1 - <2 0.5 - <1	25 - <50 7727-43-7 15 - <20 14808-60-7 10 - <12.5 13463-67-7 7 - <10 108-10-1 7 - <10 25036-25-3 7 - <10 1330-20-7 2 - <3 25068-38-6 2 - <3 14808-60-7 1 - <2 100-41-4 0.5 - <1 64-17-5

Japan Page: 2/15

Product code 00312193 Date of issue 2 February 2020 Version 17

**Product name SIGMAFAST 370 BASE RAL 1013** 

### 3. Composition/information on ingredients

Silica (silicon dioxide containing crystalline and amorphous)

0.1 - < 0.2

7631-86-9

1-548

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**: May cause 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 : May cause 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

**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 : Treat symptomatically. Contact poison treatment specialist immediately if large

quantities have been ingested or inhaled.

Japan Page: 3/15

Product code 00312193

Date of issue 2 February 2020

Version 17

**Product name SIGMAFAST 370 BASE RAL 1013** 

# 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

**Unsuitable extinguishing** media

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

: Do not use water jet.

Specific hazards arising from the chemical

: Highly flammable liquid and vapor. Runoff to sewer may create fire or explosion hazard. In a fire or if heated, a pressure increase will occur and the container may burst, with the risk of a subsequent explosion. This material is 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

**Special protective actions** for fire-fighters

: Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training. Move containers from fire area if this can be done without risk. Use water spray to keep fire-exposed containers cool.

**Special protective** equipment for fire-fighters : Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

# 6. Accidental release measures

#### Personal precautions, protective equipment and emergency procedures

For non-emergency personnel

: No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Shut off all ignition sources. No flares, smoking or flames in hazard area. Avoid breathing vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.

For emergency responders: If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For nonemergency 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.

> Japan Page: 4/15

Date of issue 2 February 2020 Version 17

Product code 00312193

**Product name SIGMAFAST 370 BASE RAL 1013** 

### 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). Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. Persons with a history of skin sensitization problems should not be employed in any process in which this product is used. Do not get in eyes or on skin or clothing. Do not ingest. Avoid breathing vapor or mist. 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 non-sparking tools. Take precautionary measures against electrostatic discharges. To avoid fire or explosion, dissipate static electricity during transfer by grounding and bonding containers and equipment before transferring material. 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: 5/15

# 8. Exposure controls/personal protection

Japan Society for Occupational Health (Japan, 5/2018).
(Japan, 5/2018).
OEL-C: 0.03 mg/m³ Form: Respirable dust
Japan Society for Occupational Health
(Japan, 5/2018).
OEL-M: 1 mg/m³ 8 hours. Form: Respirable
dust
OEL-M: 4 mg/m³ 8 hours. Form: Total dust
OEL-M: 0.3 mg/m³, (as Ti) 8 hours. Form:
nanoparticle
Japan Society for Occupational Health
(Japan, 5/2018).
OEL-M: 200 mg/m³ 8 hours.
OEL-M: 50 ppm 8 hours.
ISHL (Japan, 2/2019).
TWA: 20 ppm 8 hours.
ISHL (Japan, 2/2019).
TWA: 50 ppm 8 hours.  Japan Society for Occupational Health
(Japan, 5/2018).
OEL-M: 50 ppm 8 hours.
OEL-M: 217 mg/m³ 8 hours.
Japan Society for Occupational Health
(Japan, 5/2018).
OEL-C: 0.03 mg/m³ Form: Respirable dust
Japan Society for Occupational Health
(Japan, 5/2018).
OEL-M: 217 mg/m³ 8 hours.
OEL-M: 50 ppm 8 hours.
ISHL (Japan, 2/2019).
TWA: 20 ppm 8 hours.
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# 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.

> Japan Page: 6/15

Date of issue 2 February 2020 Version 17

Product code 00312193

**Product name SIGMAFAST 370 BASE RAL 1013** 

### 8. Exposure controls/personal protection

**Eye protection** 

: Chemical splash goggles.

Skin 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.

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.

Color : Yellow.

Odor : Characteristic.

**Boiling point** : >37.78°C (>100°F)

Flash point : Closed cup: 17°C (62.6°F)
Relative density : 1.88

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

Viscosity : Not Applicable

# 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.

Japan Page: 7/15

#### Version 17

# 10. Stability and reactivity

Hazardous decomposition products

: Decomposition products may include the following materials: carbon monoxide, carbon dioxide, smoke, oxides of nitrogen.

# 11. Toxicological information

#### Information on toxicological effects

#### **Acute toxicity**

Product/ingredient name	Result	Species	Dose	Exposure
<mark>≽</mark> arium sulfate	LD50 Dermal	Rat	>2000 mg/kg	-
	LD50 Oral	Rat	>5000 mg/kg	-
titanium dioxide	LC50 Inhalation Dusts and mists	Rat	>6.82 mg/l	4 hours
(nanoparticle)				
,	LD50 Dermal	Rabbit	>5000 mg/kg	-
	LD50 Oral	Rat	>5000 mg/kg	-
Methylisobutylketone	LC50 Inhalation Vapor	Rat	12.3 mg/l	4 hours
	LD50 Oral	Rat	2.08 g/kg	-
Epoxy Resin (700 <mw< td=""><td>LD50 Dermal</td><td>Rat</td><td>&gt;2000 mg/kg</td><td>-</td></mw<>	LD50 Dermal	Rat	>2000 mg/kg	-
<=1100)	1,050,0	D (	. 0000 //	
	LD50 Oral	Rat	>2000 mg/kg	-
Xylene	LD50 Dermal	Rabbit	>1.7 g/kg	-
	LD50 Oral	Rat	4.3 g/kg	-
Epoxy resin (MW ≤ 700)	LD50 Dermal	Rabbit	>2 g/kg	-
	LD50 Oral	Rat	>2 g/kg	-
Ethylbenzene	LC50 Inhalation Vapor	Rat	17.8 mg/l	4 hours
	LD50 Dermal	Rabbit	17.8 g/kg	-
	LD50 Oral	Rat	3.5 g/kg	-
Ethanol	LC50 Inhalation Vapor	Rat	124700 mg/m <sup>3</sup>	4 hours
	LD50 Oral	Rat	7 g/kg	-
o-cresyl glycidyl ether	LC50 Inhalation Dusts and mists	Rat	6090 mg/m <sup>3</sup>	4 hours
	LC50 Inhalation Vapor	Rat	6090 mg/m <sup>3</sup>	4 hours
	LD50 Oral	Rat	4 g/kg	-
Silica (silicon dioxide	LD50 Dermal	Rabbit	>5000 mg/kg	-
containing crystalline and				
amorphous)				
	LD50 Oral	Rat - Male, Female	>5000 mg/kg	-

#### **Irritation/Corrosion**

Product/ingredient name	Result	Species	Score	Exposure	Observation
Kylene	Skin - Moderate irritant	Rabbit	-	24 hours 500 mg	-
Epoxy resin (MW ≤ 700)	Skin - Mild irritant Eyes - Mild irritant	Rabbit Rabbit	-	-	-

#### **Sensitization**

3	Route of exposure	Species	Result
Epoxy resin (MW ≤ 700)	skin	Mouse	Sensitizing

#### **Mutagenicity**

Not available.

#### **Carcinogenicity**

Not available.

#### **Reproductive toxicity**

Japan Page: 8/15

# 11. Toxicological information

Not available.

#### **Teratogenicity**

Not available.

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

Name	Category	Route of exposure	Target organs
Methylisobutylketone	Category 3	Not applicable.	Narcotic effects
	Category 3	Not applicable.	Respiratory tract irritation
Xylene	Category 1	Not determined	central nervous system (CNS),
			kidneys, liver and respiratory system
	Category 3	Not applicable.	Narcotic effects
Ethylbenzene	Category 3	Not applicable.	Narcotic effects
	Category 3	Not applicable.	Respiratory tract irritation
Ethanol	Category 3	Not applicable.	Narcotic effects
	Category 3	Not applicable.	Respiratory tract irritation
o-cresyl glycidyl ether	Category 3	Not applicable.	Respiratory tract
Silica (silicon dioxide containing crystalline and amorphous)	Category 3	Not applicable.	Respiratory tract irritation

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

Name	Category	Route of exposure	Target organs
parium sulfate	Category 1	Not determined	respiratory system
titanium dioxide (nanoparticle)	Category 1	Not determined	respiratory system
Methylisobutylketone	Category 1	Not determined	central nervous system (CNS)
Xylene	Category 1	Not determined	nervous system and respiratory system
Crystalline-quartz	Category 1	Not determined	immune system, kidneys and respiratory system
Ethylbenzene	Category 2	Not determined	hearing organs
Ethanol	Category 1	Not determined	liver
	Category 2	Not determined	central nervous system (CNS)
Silica (silicon dioxide containing crystalline and amorphous)	Category 1	Not determined	immune system, kidneys and respiratory system

### **Aspiration hazard**

Name	Result
Kylene Ethylbenzene	ASPIRATION HAZARD - Category 1 ASPIRATION HAZARD - Category 1

Information on the likely routes of exposure

: Not available.

Potential acute health effects

Japan Page: 9/15

Product code 00312193 Date of issue 2 February 2020 Version 17

**Product name SIGMAFAST 370 BASE RAL 1013** 

### 11. Toxicological information

Eye contact : Causes serious eye irritation.

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. Defatting to the skin. 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

: Adverse symptoms may include the following: Eye contact

> 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

: Adverse symptoms may include the following: Ingestion

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.

**Potential delayed effects** 

: Not available.

**Long term exposure** 

**Potential immediate** 

: Not available.

effects

effects

**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.

: Suspected of causing genetic defects. Mutagenicity

**Teratogenicity** May damage the unborn child.

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

**Fertility effects** : May damage fertility.

#### **Numerical measures of toxicity**

**Acute toxicity estimates** 

**Japan** Page: 10/15

# 11. Toxicological information

Product/ingredient name	Oral (mg/ kg)	Dermal (mg/kg)	Inhalation (gases) (ppm)	Inhalation (vapors) (mg/l)	Inhalation (dusts and mists) (mg/l)
SIGMAFAST 370 BASE RAL 1013	23548.8	9186	N/A	23.9	N/A
barium sulfate	N/A	2500	N/A	N/A	N/A
Methylisobutylketone	2080	N/A	N/A	3	N/A
Epoxy Resin (700 <mw<=1100)< td=""><td>2500</td><td>2500</td><td>N/A</td><td>N/A</td><td>N/A</td></mw<=1100)<>	2500	2500	N/A	N/A	N/A
Xylene	4300	1100	N/A	11	N/A
Epoxy resin (MW ≤ 700)	2500	2500	N/A	N/A	N/A
Ethylbenzene	3500	17800	N/A	17.8	N/A
Ethanol	7000	N/A	N/A	124.7	N/A
o-cresyl glycidyl ether	4000	N/A	N/A	N/A	6.09

#### Other information

Sanding and grinding dusts may be harmful if inhaled. This product contains crystalline silica which can cause lung cancer or silicosis. The risk of cancer depends on the duration and level of exposure to dust from sanding surfaces or mist from spray applications. Repeated exposure to high vapor concentrations may cause irritation of the respiratory system and permanent brain and nervous system damage. Inhalation of vapor/aerosol concentrations above the recommended exposure limits causes headaches, drowsiness and nausea and may lead to unconsciousness or death. Avoid contact with skin and clothing. Wash thoroughly after handling. Emits toxic fumes when heated.

# 12. Ecological information

#### **Toxicity**

Product/ingredient name	Result	Species	Exposure	
titanium dioxide (nanoparticle)	Acute LC50 >100 mg/l Fresh water	Daphnia - Daphnia magna	48 hours	
Epoxy resin (MW ≤ 700)	Acute LC50 1.8 mg/l	Daphnia	48 hours	
,	Chronic NOEC 0.3 mg/l	Daphnia	21 days	
Ethylbenzene	Acute LC50 150 to 200 mg/l Fresh water	Fish	96 hours	
Ethanol	Acute EC50 7640 mg/l Fresh water	Daphnia - Daphnia magna	48 hours	
Silica (silicon dioxide containing crystalline and amorphous)	Acute LC50 >10000 mg/l	Fish	96 hours	

#### Persistence/degradability

Product/ingredient name	Test	Result		Dose		Inoculum
Epoxy resin (MW ≤ 700)	OECD 301F	5 % - 28 days		-		-
Product/ingredient name	Aquatic half-life	Photolysis		Biodegrada		radability
Xylene Epoxy resin (MW ≤ 700) Ethylbenzene Ethanol	- - -		- - -		Readily Not rea Readily Readily	idily /

#### **Bioaccumulative potential**

Japan Page: 11/15

Date of issue 2 February 2020 Version 17

### Product code 00312193

**Product name SIGMAFAST 370 BASE RAL 1013** 

### 12. Ecological information

Product/ingredient name	LogPow	BCF	Potential
Methylisobutylketone	1.31	-	low
Xylene	3.16	7.4 to 18.5	low
Epoxy resin (MW ≤ 700)	3	31	low
Ethylbenzene	3.15	79.43	low
Ethanol	-0.31	-	low

#### **Mobility in soil**

Soil/water partition coefficient (Koc)

: Not available.

Mobility : Not available.

Other adverse effects : No known significant effects or critical hazards.

# 13. Disposal considerations

**Disposal methods** 

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

# 14. Transport information

	UN	IMDG	IATA
UN number	UN1263	UN1263	UN1263
UN proper shipping name	PAINT	PAINT	PAINT
Transport hazard class(es)	3	3	3
Packing group	II	II	II
Environmental hazards	No.	No.	No.
Marine pollutant substances	Not applicable.	Not applicable.	Not applicable.

#### **Additional information**

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

Japan Page: 12/15

# 14. Transport information

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.

# 15. Regulatory information

#### **Fire Service Law**

Category		Danger category	Signal word	Designated quantity
Category IV	Class I petroleums	II	Flammable - Keep Fire Away	200 L

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

Ingredient name	%	Status	Reference number
wlene	7.3036		80
ethylbenzene	1.3179		53

#### **ISHL**

#### **Use of specified chemical substances**

Ingredient name	%	Status	Reference number
Ethyl benzene		Group-2 Substances under	3-3
Methyl isobutyl ketone		Supervision Special Organic Solvents	33-2

#### **Label requirements**

Ingredient name	%	Status	Reference number
<b>⊘</b> rystalline silica	≤3.0	Listed	165-2
Crystalline silica	≥10 - ≤25	Listed	165-2
Xylene	≤7.8	Listed	136
Ethylbenzene	≤1.4	Listed	70
Titanium(IV) oxide	≥10 - ≤25	Listed	191
Methyl isobutyl ketone	≤9.9	Listed	569
Ethanol	<1.0	Listed	61
Crystalline silica	≤0.30	Listed	165-2

#### **Chemicals requiring notification**

Ingredient name	%	Status	Reference number
<b>⊘</b> rystalline silica	≤3.0	Listed	165-2
Crystalline silica	≥10 - ≤25	Listed	165-2
Xylene	≤7.8	Listed	136
Ethylbenzene	≤1.4	Listed	70
Titanium(IV) oxide	≥10 - ≤25	Listed	191
Methyl isobutyl ketone	≤9.9	Listed	569
Ethanol	<1.0	Listed	61
Crystalline silica	≤0.30	Listed	165-2

#### **Carcinogen**

Japan Page: 13/15 Product code 00312193 Date of issue 2 February 2020 Version 17

**Product name SIGMAFAST 370 BASE RAL 1013** 

### 15. Regulatory information

Ingredient name	%		Reference number
methyl isobutyl ketone	≤9.9	Listed	-

#### **Mutagen**

None of the components are listed.

**Corrosive liquid** : Not listed

**Occupational Safety and** 

**Health Law** 

: Flammable liquid Class 3

**Prevention of Tetraalkyl** 

**Lead Poisoning** 

: Not listed

**Harmful Substances** 

**Subject to Obtaining Permission for** 

: Not listed

Manufacturing

Harmful Substances,

**Prohibited for** 

: Not listed

Manufacturing

**Dangerous Substances** : Inflammable **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)**

Ingredient name	%		Reference number
<b>K</b> ylene	7.3036	Priority assessment	125
Ethylbenzene	1.3179	Priority assessment	50
Methyl isobutyl ketone	8.5886	Priority assessment	116

**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 and Maritime Disaster

#### **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 Page: 14/15 Product code 00312193 Date of issue 2 February 2020 Version 17

**Product name SIGMAFAST 370 BASE RAL 1013** 

### 15. Regulatory information

**Japan inventory** : At least one component is not listed.

Road law : Not available.

#### 16. Other information

**History** 

Date of issue/Date of

revision

: 2 February 2020

Date of previous issue : 1

: 10/11/2019

Version
Prepared by

: 17 : 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**

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: 15/15