# SAFETY DATA SHEET

SIGMACOVER 380 BASE RAL 5002



## Date of issue 16 October 2024

Version 2

# 1. Product and company identification

Product name	: SIGMACOVER 380 BASE RAL 5002
Product code	: 00475554
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

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Hazard statements	<ul> <li>Flammable liquid and vapor.</li> <li>Causes skin irritation.</li> <li>May cause an allergic skin reaction.</li> <li>Causes serious eye damage.</li> <li>Suspected of causing cancer.</li> <li>May damage fertility or the unborn child.</li> <li>Causes damage to organs. (central nervous system (CNS), kidneys, liver, respiratory organs)</li> <li>Causes damage to organs through prolonged or repeated exposure. (hearing</li> </ul>
GHS label elements Hazard pictograms Signal word	: Danger
GHS Classification	: FLAMMABLE LIQUIDS - Category 3 SKIN IRRITATION - Category 2 SERIOUS EYE DAMAGE - Category 1 SKIN SENSITIZATION - Category 1 CARCINOGENICITY - Category 2 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 1 HAZARDOUS TO THE AQUATIC ENVIRONMENT - CHRONIC HAZARD - Category 1

## 2. Hazards identification

		organs, nervous system, respiratory organs) Very 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 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.
CSCL number	: Not available.

Ingredient name	%	CAS number	CSCL
vystalline silica, respirable powder (>10 microns)	25 - <50	14808-60-7	1-548
Talc (containing no asbestos or quartz)	20 - <25	14807-96-6	Not available.
Polycondensate of 4,4'-isopropylidenediphenol and 1-chloro-2,3-epoxypropane (liquid only)	10 - <12.5	25068-38-6	7-1283
Xylene	7 - <10	1330-20-7	3-3; 3-60
nonylphenol	3 - <5	25154-52-3	3-503
Epoxy Resin (700 <mw<=1100)< td=""><td>3 - &lt;5</td><td>25036-25-3</td><td>Not available.</td></mw<=1100)<>	3 - <5	25036-25-3	Not available.
Phenol, methylstyrenated	3 - <5	68512-30-1	Not available.
isobutyl alcohol	3 - <5	78-83-1	2-3049
Ethyl Benzene	1 - <2	100-41-4	3-28; 3-60
Titanium dioxide (excluding nanoparticle)	1 - <2	13463-67-7	1-558; 5-5225
Reaction products of 12-hydroxyoctadecanoic acid and octadecanoic acid and 1,3-phenylenedimethanamine	0.5 - <1	911674-82-3	Not available.
phthalocyanine blue	0.2 - <0.5	147-14-8	5-3299; 5-3300; 5-5216

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

<b>Description of necess</b>	ary first aid measures
Eye contact	<ul> <li>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.</li> </ul>
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	<ul> <li>Remove contaminated clothing and shoes. Wash skin thoroughly with soap and water or use recognized skin cleanser. Do NOT use solvents or thinners.</li> </ul>
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 symp	toms/effects, acute and delayed
Potential acute healt	h effects

Potential acute nealth effe	<u>CIS</u>
Eye contact	: Causes serious eye damage.
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/symp	<u>otoms</u>
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 dryness cracking 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
ndication of immediate me	dical attention and special treatment needed, if necessary
Notes to physician	<ul> <li>Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.</li> </ul>
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 the person before the person providing and to give mouth-to-mouth resuscitation.

thoroughly with water before removing it, or wear gloves.

## See toxicological information (Section 11)

## 4. First aid measures

## 5. Fire-fighting measures

<u>Extinguishing media</u>	
Suitable extinguishing media	: Use dry chemical, CO <sub>2</sub> , 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 very 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 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	: Fire-fighters should wear appropriate protective equipment and self-contained

# 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.
Methods and materials for co	ntainment 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 mon up if water-soluble.

## 6. Accidental release measures

Large spill: Stop leak if without risk. Move containers from spill area. Use spark-proof tools and<br/>explosion-proof equipment. Approach release from upwind. Prevent entry into<br/>sewers, water courses, basements or confined areas. Wash spillages into an<br/>effluent treatment plant or proceed as follows. Contain and collect spillage with non-<br/>combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth<br/>and place in container for disposal according to local regulations (see Section 13).<br/>Dispose of via a licensed waste disposal contractor. Contaminated absorbent<br/>material may pose the same hazard as the spilled product. Note: see Section 1 for<br/>emergency contact information and Section 13 for waste disposal.

## 7. Handling and storage

**Precautions for safe** : 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 handling 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

Ingredient name	Exposure limits
vystalline silica, respirable powder (>10 microns)	Japan Society for Occupational Health
	(Japan, 5/2023) [Respirable crystalline silica]
	OEL-C: 0.03 mg/m <sup>3</sup> . Form: Respirable dust.
Talc , not containing asbestiform fibres	Japan Society for Occupational Health
	(Japan, 5/2023) [Class 1 dusts (Activated
	charcoal, Alumina, Aluminium, Bentonite,
	Diatomite, Graphite, Kaolinite, Pagodite,
	Pyrites, Pyrite cinder)]
	OEL-M 8 hours: 2 mg/m <sup>3</sup> . Form: Total dust
	(Class 1 Dust).
	OEL-M 8 hours: 0.5 mg/m <sup>3</sup> . Form:
	Respirable dust (Class 1 Dust).
xylene	Japan Society for Occupational Health
	Japan Page: 5/16

# 8. Exposure controls/personal protection

-	·	(Japan 5/2023)
		(Japan, 5/2023)
		OEL-M 8 hours: 50 ppm.
		OEL-M 8 hours: 217 mg/m <sup>3</sup> . Industrial Safety and Health Act (Japan,
		6/2020) [xylene]
		TWA 8 hours: 50 ppm.
O mothy dramon and al		
2-methylpropan-1-ol		Japan Society for Occupational Health
		(Japan, 5/2023)
		OEL-M 8 hours: 50 ppm.
		OEL-M 8 hours: 150 mg/m <sup>3</sup> .
		Industrial Safety and Health Act (Japan,
		6/2020)
		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/m <sup>3</sup> .
		Industrial Safety and Health Act (Japan,
		6/2020)
		TWA 8 hours: 20 ppm.
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/m <sup>3</sup> (as Ti). Form:
		Total particulate matter.
		Japan Society for Occupational Health
		(Japan, 5/2023) [titanium dioxide
		(nanoparticle)]
		OEL-M 8 hours: 0.3 mg/m <sup>3</sup> . Form:
		nanoparticle.
20H 21H phthology (apingto)	N20 N20 N21 N22 coppor	
29H,3TH-phthalocyaninalo(2	2-)-N29,N30,N31,N32 copper	Japan Society for Occupational Health
		(Japan, 5/2023) [Copper and compounds]
		Skin sensitizer.
<b>Recommended monitoring</b>	: Reference should be made to approp	priate monitoring standards. Reference to
procedures	national guidance documents for me	thods for the determination of hazardous
	substances will also be required.	
Appropriato opginooring	Liss only with adoquate ventilation	Jse process enclosures, local exhaust ventilation
Appropriate engineering		worker exposure to airborne contaminants
controls		y limits. The engineering controls also need to
		ins below any lower explosive limits. Use
	explosion-proof ventilation equipmen	
Environmental exposure		rocess equipment should be checked to ensure
controls		f environmental protection legislation. In some
		ineering modifications to the process equipment
	will be necessary to reduce emission	is to acceptable levels.
ndividual protection measu	ires	
lygiene measures	· Wash hands, forearms and face thor	roughly after handling chemical products, before
Tygiene measures		bry and at the end of the working period.
		ed to remove potentially contaminated clothing.
		not be allowed out of the workplace. Wash
		g. Ensure that eyewash stations and safety
	showers are close to the workstation	
Eye protection	: Chemical splash goggles and face sl	
		Japan Page: 6/16

# 8. Exposure controls/personal protection

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.			
Odor	: Characteristic.			
Boiling point	: >37.78°C (>100°F)			
Flash point	: Closed cup: 26°C (78.8°F)			
Relative density	: 1.26			
Solubility(ies)	Media Result			
Solubility(les)	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.			
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.			

# 10. Stability and reactivity

Hazardous decomposition products

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

# 11. Toxicological information

## Information on toxicological effects

## Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
Polycondensate of 4,4'- isopropylidenediphenol and	LD50 Dermal	Rabbit	>2 g/kg	-
1-chloro-2,3-epoxypropane				
(liquid only)				
	LD50 Oral	Rat	>2 g/kg	-
Xylene	LD50 Dermal	Rabbit	1.7 g/kg	-
	LD50 Oral	Rat	4.3 g/kg	-
nonylphenol	LD50 Dermal	Rabbit	2.14 g/kg	-
	LD50 Oral	Rat	580 mg/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)				
	LD50 Oral	Rat	>2000 mg/kg	-
Phenol, methylstyrenated	LD50 Dermal	Rabbit	>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	-
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	-
Titanium dioxide (excluding nanoparticle)	LC50 Inhalation Dusts and mists	Rat	>6.82 mg/l	4 hours
. ,	LD50 Dermal	Rabbit	>5000 mg/kg	-
	LD50 Oral	Rat	>5000 mg/kg	-
Reaction products of 12-hydroxyoctadecanoic acid and octadecanoic acid	LC50 Inhalation Dusts and mists	Rat	>5.08 mg/l	4 hours
and				
1,3-phenylenedimethanamine				
phthalocyanine blue	LD50 Dermal	Rat	>5000 mg/kg	-
	LD50 Oral	Rat	5.1 g/kg	-

Irritation/Corrosion

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

## **Sensitization**

## Product name SIGMACOVER 380 BASE RAL 500

# **11. Toxicological information**

•	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
ralc (containing no asbestos or quartz) Xylene	Category 1 Category 1	-	respiratory organs central nervous system (CNS), kidneys, liver, respiratory organs
nonylphenol	Category 3 Category 3	-	Narcotic effects Respiratory tract irritation
isobutyl alcohol	Category 3	-	Respiratory tract irritation
Ethyl Benzene	Category 3 Category 3	-	Narcotic effects Respiratory tract irritation
	Category 3		Narcotic effects

## 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
nonylphenol	Category 2	-	bladder, kidneys
Ethyl Benzene	Category 1	-	hearing organs, nervous system
Titanium dioxide (excluding nanoparticle)	Category 1	-	respiratory organs

### Aspiration hazard

Name	Result
	ASPIRATION HAZARD - Category 1 ASPIRATION HAZARD - Category 1

#### Information on the likely : Not available. routes of exposure

### Potential acute health effects

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# 11 Toxicological information

11. Toxicological i	nformation
Eye contact	: Causes serious eye damage.
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 ph	usical, 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 dryness cracking 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
Delayed and immediate effect	ts and also chronic effects from short and long term exposure
Short term exposure	
Potential immediate effects	: Not available.
Potential delayed effects	: Not available.
Long term exposure	
Potential immediate effects	: Not available.
Potential delayed effects	: Not available.
Potential chronic health eff	<u>ects</u>
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	: Suspected of causing cancer. Risk of cancer depends on duration and level of exposure.
Mutagenicity	: No known significant effects or critical hazards.
Reproductive toxicity	: May damage fertility or the unborn child.
Numerical measures of toxic	ity
Acute toxicity estimates	

## Product name SIGMACOVER 380 BASE RAL 500

Product/ingredient name	Oral (mg/ kg)	Dermal (mg/kg)	Inhalation (gases) (ppm)	Inhalation (vapors) (mg/l)	Inhalation (dusts and mists) (mg/l)
SIGMACOVER 380 BASE RAL 5002	8718.0	5648.1	N/A	93.4	N/A
Polycondensate of 4,4'-isopropylidenediphenol and 1-chloro-2,3-epoxypropane (liquid only)	2500	2500	N/A	N/A	N/A
Xylene	4300	1700	N/A	11	N/A
nonylphenol	580	2140	N/A	N/A	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
Phenol, methylstyrenated	2500	2500	N/A	N/A	N/A
isobutyl alcohol	2830	2460	N/A	11	N/A
Ethyl Benzene	3500	17800	N/A	17.8	N/A
phthalocyanine blue	5100	N/A	N/A	N/A	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. Avoid contact with skin and clothing.

## **12. Ecological information**

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### **Toxicity**

Product/ingredient name	Result	Species	Exposure
Polycondensate of 4,4'- isopropylidenediphenol and 1-chloro-2,3-epoxypropane (liquid only)	Chronic NOEC 0.3 mg/l	Daphnia	21 days
nonylphenol	Acute EC50 0.056 mg/l Fresh water	Algae - Desmodesmus subspicatus	72 hours
	Chronic EC10 0.003 mg/l Fresh water	Algae - Desmodesmus subspicatus	72 hours
	Chronic NOEC 1 µg/l Fresh water	Daphnia - <i>Daphnia magna</i>	21 days
isobutyl alcohol	Acute EC50 1100 mg/l	Daphnia	48 hours
Ethyl Benzene	Acute EC50 1.8 mg/l Fresh water Chronic NOEC 1 mg/l Fresh water	Daphnia Daphnia - <i>Ceriodaphnia dubia</i>	48 hours -
Titanium dioxide (excluding nanoparticle)	Acute LC50 >100 mg/l Fresh water	Daphnia - <i>Daphnia magna</i>	48 hours
Reaction products of 12-hydroxyoctadecanoic acid and octadecanoic acid and 1,3-phenylenedimethanamine	Acute LC50 >100 mg/l	Fish	96 hours
phthalocyanine blue	Acute LC50 >100 mg/l	Fish	96 hours

## Persistence/degradability

Product/ingredient name	Test	Result	Dose	Inoculum
✓olycondensate of 4,4'- isopropylidenediphenol and 1-chloro-2,3-epoxypropane (liquid only) Ethyl Benzene		5 % - 28 days 79 % - Readily - 10 days	-	-
	-	79 % - Reauly - 10 days	-	-

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12. Ecological information			
Product/ingredient name	Aquatic half-life	Photolysis	Biodegradability
Polycondensate of 4,4'- isopropylidenediphenol and 1-chloro-2,3-epoxypropane (liquid only)	-	-	Not readily
Xylene Ethyl Benzene	-	-	Readily Readily

## **Bioaccumulative potential**

Product/ingredient name	LogPow	BCF	Potential
Polycondensate of 4,4'- isopropylidenediphenol and 1-chloro-2,3-epoxypropane	2.64 to 3.78	31	Low
(liquid only) Xylene	3.12	7.4 to 18.5	Low
nonylphenol	3.28	154.88	Low
Phenol, methylstyrenated	3.627	-	Low
isobutyl alcohol	1	-	Low
Ethyl Benzene	3.6	79.43	Low
phthalocyanine blue	6.6	-	High

<u>Mobility in soil</u>	
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. 2 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	ΙΑΤΑ
UN number	UN1263	UN1263	UN1263
UN proper shipping name	PAINT	PAINT	PAINT
Transport hazard class(es)	3	3	3
Packing group			
Environmental hazards	Yes. The environmentally hazardous substance mark is not required.	Yes.	Yes. The environmentally hazardous substance mark is not required.
Marine pollutant substances	Not applicable.	(reaction product: bisphenol-A- (epichlorhydrin); epoxy resin)	Not applicable.

### Additional information

: None identified.

#### IMDG ΙΑΤΑ

UN

- : The marine pollutant mark is not required when transported in sizes of  $\leq 5$  L or  $\leq 5$  kg.
- : The environmentally hazardous substance mark may appear if required by other transportation regulations.

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			
Kylene	7.7	Class 1	80
Alkylphenol (limited to those the alkyl group is C9)	5.0	Class 1	320
Ethylbenzene	1.4	Class 1	53

## **Industrial Safety and Health Act**

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

Ingredient name	%		Reference number
€fhyl benzene	≤10	Special Organic Solvents	3-3

## Substance(s) requiring labelling

Product name SIGMACOVER 380 BASE RAL 50

# 15. Regulatory information

Ingredient name	%	Status	Reference number
♥rystalline silica	≥20 - ≤30	Listed	165-2
Xylene	≤10	Listed	136
Butanol	≤10	Listed	477
Ethylbenzene	≤10	Listed	70
Titanium(IV) oxide	≤10	Listed	191

## **Chemicals requiring notification**

Ingredient name	%	Status	Reference number
Crystalline silica	≥20 - ≤30	Listed	165-2
Xylene	≤10	Listed	136
Butanol	≤10	Listed	477
Ethylbenzene	≤10	Listed	70
Titanium(IV) oxide	≤10	Listed	191
Copper and its compounds	≤10	Listed	379

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

Ingredient name	%		Reference number
øuartz	≥20 - ≤30	Listed	-

### <u>Mutagen</u>

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

Corrosive liquid Occupational Safety and Health Law	: Not listed : Inflammable
Regulations on the Prevention of Tetraalkyl Lead Poisoning	: Not listed
Harmful Substances Subject to Obtaining Permission for Manufacturing	: Not listed
Harmful Substances, Prohibited for Manufacturing	: Not listed
ISHL Enforcement Order Appendix 1 - Dangerous Substances	: Inflammable
Lead regulation Organic solvents poisoning prevention	: Not listed : Class 2

## Poisonous and Deleterious Substances

Ingredient name	%		Reference number
Monylphenol	4.9725	Deleterious	2-1-78-2

Japan Page: 14/16

# 15. Regulatory information

## **Chemical Substances Control Law (CSCL)**

Ingredient name	%	Status	Reference number
Olycondensate of 4,4'-isopropylidenediphenol and	≥10 - ≤20	Priority assessment	87
1-chloro-2,3-epoxypropane (liquid only)			
Xylene	≤10	Priority assessment	125
Ethylbenzene	≤10	Priority assessment	50
Toluene	≤10	Priority assessment	46
Phenol	≤10	Priority assessment	62
Isopropenylbenzene	≤10	Priority assessment	48
Benzene	≤10	Priority assessment	45
2,2,4,4,6,6,8,8-Octamethyl-	≤10	Monitoring	40
1,3,5,7,2,4,6,8-tetraoxatetrasilocane		-	
Cumene	≤10	Priority assessment	126
Acetaldehyde	≤10	Priority assessment	26
Formaldehyde	≤10	Priority assessment	25
Ethylene oxide	≤10	Priority assessment	19
1,4-Dioxane	≤10	Priority assessment	80
Chloromethane	≤10	Priority assessment	6

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 Industrial Waste	:	Not listed
Japan inventory	:	Not determined.
Road law	:	Not available.

# 16. Other information

: 16 October 2024
: 12/18/2023
: 2
: EHS

## 16. Other information

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
	on - Onice Nations
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**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.