SAFETY DATA SHEET

SIGMACOVER 380 BASE RAL 7036



Date of issue 19 December 2023

Version 1.01

1. Product and company identification

Product name	: SIGMACOVER 380 BASE RAL 7036
Product code	: 00475560
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

2. Hazards identification

organs, nervous system, respiratory organs) Very toxic to aquatic life with long lasting effects.

Precautionary statements		
Prevention	ha eye an bre tho	otain special instructions before use. Do not handle until all safety precautions ve been read and understood. Wear protective gloves, protective clothing and e or face protection. Keep away from heat, hot surfaces, sparks, open flames d other ignition sources. No smoking. Avoid release to the environment. Do not eathe vapor. Do not eat, drink or smoke when using this product. Wash proughly after handling. Contaminated work clothing should not be allowed out of e workplace.
Response	ON wa me mi	ollect spillage. IF exposed or concerned: Call a POISON CENTER or doctor. IF N SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with ater. IF ON SKIN: Wash with plenty of water. If skin irritation or rash occurs: Get edical advice or attention. IF IN EYES: Rinse cautiously with water for several nutes. Remove contact lenses, if present and easy to do. Continue rinsing. mediately call a POISON CENTER or doctor.
Storage	: Sto	ore locked up.
Disposal		spose of contents and container in accordance with all local, regional, national d international regulations.
Other hazards which do not result in classification	: Pro	olonged 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
crystalline 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
titanium dioxide (excluding nanoparticle)	3 - <5	13463-67-7	1-558; 5-5225
Epoxy Resin (700 <mw<=1100)< td=""><td>3 - <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
Ethylbenzene	1 - <2	100-41-4	3-28; 3-60
Reaction products of 12-hydroxyoctadecanoic acid and octadecanoic acid and 1,3-phenylenedimethanamine	0.5 - <1	911674-82-3	Not available.
carbon black	0.1 - <0.2	1333-86-4	5-3328; 5-5222

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 necess	sary first aid measures
Eye contact	 Check for and remove any contact lenses. Immediately flush eyes with running water for at least 15 minutes, keeping eyelids open. Seek immediate medical attention.
Inhalation	: Remove to fresh air. Keep person warm and at rest. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel.
Skin contact	 Remove contaminated clothing and shoes. Wash skin thoroughly with soap and water or use recognized skin cleanser. Do NOT use solvents or thinners.
Ingestion	: If swallowed, seek medical advice immediately and show this container or label. Keep person warm and at rest. Do NOT induce vomiting.

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Most important symptoms/e	<u>effec</u>	ts, acute and delayed
Potential acute health effe	<u>cts</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	1	Causes damage to organs following a single exposure if swallowed.
Over-exposure signs/symp	ptom	<u>15</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
Indication of immediate me	dical	l 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.
Specific treatments	1	No specific treatment.
Protection of first-aiders		No action shall be taken involving any personal risk or without suitable training. If it

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)

4. First aid measures

5. Fire-fighting measures

<u>Extinguishing media</u>	
Suitable extinguishing media	: Use dry chemical, CO ₂ , 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 equipment for fire-fighters	: Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

For non-emergency personnel	: No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Shut off all ignition sources. No flares, smoking or flames in hazard area. Do not breathe vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.
For emergency responders	: If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".
Environmental precautions	: Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air). Water polluting material. May be harmful to the environment if released in large quantities. Collect spillage.
Methods and materials for co	ontainment and cleaning up
Small spill	: Stop leak if without risk. Move containers from spill area. Use spark-proof tools and

explosion-proof equipment. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.

6. Accidental release measures

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

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, 9/2022). [Respirable crystalline silica]
Talc containing no asbestos or quartz	OEL-C: 0.03 mg/m ³ Form: Respirable dust Japan Society for Occupational Health (Japan, 9/2022). [Class 1 dusts (Activated charcoal, Alumina, Aluminium, Bentonite,
	Diatomite, Graphite, Kaolinite, Pagodite, Pyrites, Pyrite cinder, Talc)] OEL-M: 0.5 mg/m ³ 8 hours. Form: Respirable dust (Class 1 Dust)
Xylene	OEL-M: 2 mg/m ³ 8 hours. Form: Total dust (Class 1 Dust) Industrial Safety and Health Act (Japan,
	Japan Page: 5/16

8. Exposure controls/personal protection

		6/2020). [xylene]
		TWA: 50 ppm 8 hours.
		Japan Society for Occupational Health
		(Japan, 9/2022).
		OEL-M: 50 ppm 8 hours.
		OEL-M: 217 mg/m ³ 8 hours.
isobutyl alcohol		Japan Society for Occupational Health
		(Japan, 9/2022).
		OEL-M: 150 mg/m ³ 8 hours.
		OEL-M: 50 ppm 8 hours.
		Industrial Safety and Health Act (Japan, 6/2020).
		TWA: 50 ppm 8 hours.
Ethylbenzene		Japan Society for Occupational Health
		(Japan, 9/2022). Absorbed through skin.
		OEL-M: 87 mg/m ³ 8 hours.
		OEL-M: 20 ppm 8 hours.
		Industrial Safety and Health Act (Japan,
		6/2020).
		TWA: 20 ppm 8 hours.
Recommended monitoring procedures	: Reference should be made to appropri- national guidance documents for methor substances will also be required.	
Appropriate engineering controls	or other engineering controls to keep w	e process enclosures, local exhaust ventilation vorker exposure to airborne contaminants mits. The engineering controls also need to a below any lower explosive limits. Use
Environmental exposure		cess equipment should be checked to ensure
controls	they comply with the requirements of e	nvironmental protection legislation. In some eering modifications to the process equipment
Individual protection measu	ires	
Hygiene measures	: Wash hands, forearms and face thorou	ughly after handling chemical products, before
	Contaminated work clothing should not	t to remove potentially contaminated clothing. t be allowed out of the workplace. Wash Ensure that eyewash stations and safety
Eye protection	: Chemical splash goggles and face shie	eld.
Skin protection		
Hand protection	: Chemical-resistant, impervious gloves	complying with an approved standard should
	be worn at all times when handling che this is necessary. Considering the para check during use that the gloves are st should be noted that the time to breakt	mical products if a risk assessment indicates ameters specified by the glove manufacturer, ill retaining their protective properties. It hrough for any glove material may be ers. In the case of mixtures, consisting of
Gloves	: butyl rubber	
	-	

8. Exposure controls/personal protection

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 (7	8.8°F)	
Relative density	: 1.3		
Solubility(ies)	Media	Result	
	. cold water	Not soluble	

10. Stability and r	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 halogenated compounds metal oxide/oxides			

Product name SIGMACOVER 380 BASE RAL 7036

11. Toxicological information

Information on toxicological effects

Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
Polycondensate of 4,4'-	LD50 Dermal	Rabbit	>2 g/kg	-
isopropylidenediphenol and				
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	-
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	-
Epoxy Resin (700 <mw <=1100)</mw 	LD50 Dermal	Rat	>2000 mg/kg	-
,	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	-
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	-
Reaction products of	LC50 Inhalation Dusts and mists	Rat	>5.08 mg/l	4 hours
12-hydroxyoctadecanoic acid and octadecanoic acid and				
1,3-phenylenedimethanamine				
carbon black	LD50 Oral	Rat	>10 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 Ul	-
	Skin - Severe irritant	Rabbit	-	24 hours 2 mg	-
Xylene	Skin - Moderate irritant	Rabbit	-	24 hours 500 mg	-

Sensitization

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

Mutagenicity

11. Toxicological information

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

Specific target organ toxicity (repeated exposure)

Name	Category	Route of exposure	Target organs
Talc containing no asbestos or quartz	Category 1	-	respiratory organs
Xylene	Category 1	-	nervous system, respiratory organs
nonylphenol	Category 2	-	bladder, kidneys
titanium dioxide (excluding nanoparticle)	Category 1	-	respiratory organs
Ethylbenzene	Category 1	-	hearing organs, nervous system
carbon black	Category 1	-	respiratory organs

Aspiration hazard

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

Information on the likely routes of exposure	:	Not available.
Potential acute health effec	<u>ts</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	1	Causes damage to organs following a single exposure if swallowed.

11. Toxicological information

Symptoms related to the physical, chemical and toxicological characteristics

Eye contact	: Adverse symptoms may include the following: pain watering redness
Inhalation	: Adverse symptoms may include the following: reduced fetal weight increase in fetal deaths skeletal malformations
Skin contact	: Adverse symptoms may include the following: pain or irritation redness 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
<u>Short term exposure</u>		
Potential immediate effects	:	Not available.
Potential delayed effects	:	Not available.
<u>Long term exposure</u>		
Potential immediate effects	:	Not available.
Potential delayed effects	:	Not available.
Potential chronic health eff	ect	<u>8</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	1	May damage fertility or the unborn child.

Numerical measures of toxicity

Acute toxicity estimates

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)			
GMACOVER 380 BASE RAL 7036	8718.0	5891.0	N/A	93.4	N/A			
Polycondensate of 4,4'-isopropylidenediphenol and	2500	2500	N/A	N/A	N/A			
1-chloro-2,3-epoxypropane (liquid only)								
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			
Ethylbenzene	3500	17800	N/A	17.8	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

Toxicity

Result	Species	Exposure
Chronic NOEC 0.3 mg/l	Daphnia	21 days
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
Acute LC50 >100 mg/l Fresh water	Daphnia - Daphnia magna	48 hours
Acute EC50 1100 mg/l	Daphnia	48 hours
		48 hours
	Daphnia - Ceriodaphnia dubia	-
Acute LC50 >100 mg/l	Fish	96 hours
	Chronic NOEC 0.3 mg/l Acute EC50 0.056 mg/l Fresh water Chronic EC10 0.003 mg/l Fresh water Chronic NOEC 1 µg/l Fresh water Acute LC50 >100 mg/l Fresh water Acute EC50 1100 mg/l Acute EC50 1.8 mg/l Fresh water Chronic NOEC 1 mg/l Fresh water	Chronic NOEC 0.3 mg/lDaphniaAcute EC50 0.056 mg/l Fresh water Chronic EC10 0.003 mg/l Fresh water Chronic NOEC 1 µg/l Fresh water Acute LC50 >100 mg/l Fresh waterAlgae - Desmodesmus subspicatus Daphnia - Daphnia magna Daphnia - Daphnia magnaAcute EC50 1100 mg/l Acute EC50 1.8 mg/l Fresh water Chronic NOEC 1 mg/l Fresh water Acute LC50 >100 mg/lDaphnia Daphnia - Daphnia magna Daphnia - Daphnia magna

Persistence/degradability

Product/ingredient name	Test	Result	Dose	Inoculum
Polycondensate of 4,4'- isopropylidenediphenol and 1-chloro-2,3-epoxypropane (liquid only)	OECD 301F	5 % - 28 days	-	-
Ethylbenzene	-	79 % - Readily - 10 days	-	-

12. Ecological information

gredient name Aquatic half-life	Biodegradability			
enediphenol and B-epoxypropane	Not readily			
-	Readily			
- 	Readily Readily			

Bioaccumulative potential

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

<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. 1 Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Vapor from product residues may create a highly flammable or explosive atmosphere inside the container. Do not cut, weld or grind used containers unless they have been cleaned thoroughly internally. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

14. Transport information

	UN	IMDG	IATA
UN number	UN1263	UN1263	UN1263
UN proper shipping name	PAINT	PAINT	PAINT
Transport hazard class(es)	3	3	3
Packing group	III	III	III
Environmental hazards	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.
- UN IMDG IATA
- ie identii
- : The marine pollutant mark is not required when transported in sizes of ≤ 5 L or ≤ 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	%	Status	Reference number
Xylene	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
Ethyl benzene		Group-2 Substances under Supervision	3-3

Substance(s) requiring labelling

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15. Regulatory information

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

Chemicals requiring notification

Ingredient name	%	Status	Reference number
🖉 rystalline silica	≥20 - ≤30	Listed	165-2
Xylene	≤10	Listed	136
Titanium(IV) oxide	≤10	Listed	191
Butanol	≤10	Listed	477
Ethylbenzene	≤10	Listed	70
Carbon black	≤10	Listed	130

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

None of the components are listed.

Mutagen

Ingredient name		%	Status	Reference
bisphenol A type epoxy resin intermediate		≥10 - ≤20	Listed	number 110
Corrosive liquid	: Not listed			
Occupational Safety and Health Law	: 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	%	Status	Reference number
nonylphenol	4.9725	Deleterious	2-1-78-2

Chemical Substances Control Law (CSCL)

Product name SIGMACOVER 380 BASE RAL 703

15. Regulatory information

Ingredient name	%	Status	Reference number
Polycondensate 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	1	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	: All components are listed or exempted.
Road law	: Not available.

16. Other information

: 19 December 2023
: 12/18/2023
: 1.01
: EHS

16. Other information

Kou to obbroviations	ADN = European Dravisions concerning the International Corrigge of Dengarous
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 the	bet her sharped from providually issued version

V 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.