# **SAFETY DATA SHEET**



Date of issue/Date of revision 16 January 2020 Version4.02

## Section 1. Identification

: 00333391
: SIGMACOVER 350 BASE REDBROWN 6179
: Not available.
: Liquid.
f the substance or mixture and uses advised against
: Coating. Paint. Painting-related materials.
: PT PPG Coatings Indonesia JI. Rawagelam III No.1 13930 Jakarta Indonesia Tel +62 21 4605710 PMC.Safety@PPG.com
: CHEMTREC 001-803-017-9114 (CCN 17704)

## Section 2. Hazards identification

Classification of the	: FLAMMABLE LIQUIDS - Category 3
substance or mixture	ACUTE TOXICITY (inhalation) - Category 4
	SKIN CORROSION/IRRITATION - Category 2
	SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 1
	SKIN SENSITIZATION - Category 1
	SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Respiratory tract
	irritation) - Category 3
	SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) - Category 2
	AQUATIC HAZARD (LONG-TERM) - Category 3
	Percentage of the mixture consisting of ingredient(s) of unknown acute toxicity: 43.3% (Oral), 67.7% (Dermal), 69.5% (Inhalation)
	Percentage of the mixture consisting of ingredient(s) of unknown hazards to the aquatic environment: 80.1%

GHS label elements, inclu	uding precautionary statements
Hazard pictograms	
Signal word	: Danger

Date of issue 16 January 2020 Version 4.02

Product name SIGMACOVER 350 BASE REDBROWN 6179

## Section 2. Hazards identification

Hazard statements	<ul> <li>Flammable liquid and vapor. Harmful if inhaled. Causes serious eye damage. Causes skin irritation. May cause an allergic skin reaction. May cause respiratory irritation. May cause damage to organs through prolonged or repeated exposure. Harmful to aquatic life with long lasting effects.</li> </ul>
Precautionary statements	
Prevention	: Wear protective gloves. Wear eye or face protection. 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. Use only outdoors or in a well-ventilated area. Avoid release to the environment. Do not breathe vapor. 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 INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER or physician if you feel unwell. 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. Immediately call a POISON CENTER or physician.
Storage	: Store locked up. Store in a well-ventilated place. Keep cool.
Disposal	: Dispose of contents and container in accordance with all local, regional, national and international regulations.

**Other hazards which do not** : Prolonged or repeated contact may dry skin and cause irritation. **result in classification** 

## Section 3. Composition/information on ingredients

Substance/mixture	: Mixture
Other means of	: Not available.
identification	

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

CAS number: Not applicable.EC number: Mixture.		
Ingredient name	%	CAS number
Falc , not containing asbestiform fibresEpoxy Resin (700 <mw<=1100)< td="">xylenecrystalline silica, respirable powder (&lt;10 microns)</mw<=1100)<>	10- <20 10- <20 10- <20 5- <10 5- <10 3- <5 3- <5 1- <3 1- <3	14807-96-6 67924-34-9 1330-20-7 14808-60-7 25068-38-6 100-51-6 78-83-1 100-41-4 220926-97-6

	•
Indonesia	<sup>•</sup> Page: 2/14

Product name SIGMACOVER 350 BASE REDBROWN 6179

### Section 3. Composition/information on ingredients

There are no 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.

SUB codes represent substances without registered CAS Numbers.

Occupational exposure limits, if available, are listed in Section 8.

### Section 4. First aid measures

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

#### Most important symptoms/effects, acute and delayed

Potential acute health effects	
Eye contact	Causes serious eye damage.
Inhalation	Harmful if inhaled. May cause respiratory irritation.
Skin contact	Causes skin irritation. Defatting to the skin. May cause an allergic skin reaction.
Ingestion	No known significant effects or critical hazards.
Over-exposure signs/sympton	<u>ns</u>
Eye contact	Adverse symptoms may include the following: pain watering redness
Inhalation	Adverse symptoms may include the following: respiratory tract irritation coughing
Skin contact :	Adverse symptoms may include the following: pain or irritation redness dryness cracking blistering may occur
Ingestion	Adverse symptoms may include the following: stomach pains
Indication of immediate medica	al attention and special treatment needed, if necessary
Notes to physician	In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.
Specific treatments	No specific treatment.

Product name SIGMACOVER 350 BASE REDBROWN 6179

### Section 4. First aid measures

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.
	thoroughly with water before removing it, or wear gloves.

See toxicological information (Section 11)

#### Section 5. Fire-fighting measures Extinguishing media Suitable extinguishing : Use dry chemical, CO<sub>2</sub>, water spray (fog) or foam. media Unsuitable extinguishing : Do not use water jet. media Specific hazards arising : Flammable liquid and vapor. Runoff to sewer may create fire or explosion hazard. from the chemical 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. Decomposition products may include the following materials: **Hazardous thermal** 2 decomposition products carbon oxides nitrogen oxides halogenated compounds metal oxide/oxides : Promptly isolate the scene by removing all persons from the vicinity of the incident if **Special protective actions** there is a fire. No action shall be taken involving any personal risk or without for fire-fighters suitable training. Move containers from fire area if this can be done without risk. Use water spray to keep fire-exposed containers cool. Fire-fighters should wear appropriate protective equipment and self-contained **Special protective** 2 breathing apparatus (SCBA) with a full face-piece operated in positive pressure equipment for fire-fighters mode.

### Section 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.

Version 4.02

Date of issue 16 January 2020

## Section 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 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.

## Section 7. Handling and storage

Precautions for safe handling		
Protective measures	:	Put on appropriate personal protective equipment (see Section 8). Persons with a history of skin sensitization problems should not be employed in any process in which this product is used. 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.
Advice on general occupational hygiene	:	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. See also Section 8 for additional information on hygiene measures.
Conditions for safe storage, including any incompatibilities	:	Do not store above the following temperature: 50°C (122°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.

## Section 8. Exposure controls/personal protection

#### **Control parameters**

#### Occupational exposure limits

Ingredient name		Exposure limits
✔alc , not containing asbestif xylene	orm fibres	<ul> <li>Minister of Labor of the Republic of Indonesia (Indonesia, 4/2018).</li> <li>TWA: 2 mg/m<sup>3</sup> 8 hours. Form: respirable fraction</li> <li>Minister of Labor of the Republic of Indonesia (Indonesia, 4/2018).</li> <li>TWA: 434 mg/m<sup>3</sup> 8 hours.</li> <li>TWA: 100 BDS 8 hours.</li> <li>STEL: 651 mg/m<sup>3</sup> 15 minutes.</li> <li>STEL: 150 BDS 15 minutes.</li> <li>Ministry of Employment and Labor (Indonesia, 2/1997).</li> <li>STEL: 651 mg/m<sup>3</sup> 15 minutes.</li> <li>STEL: 150 BDS 15 minutes.</li> </ul>
crystalline silica, respirable p	owder (<10 microns)	ACGIH TLV (United States, 3/2019). TWA: 0.025 mg/m <sup>3</sup> 8 hours. Form:
2-methylpropan-1-ol		Respirable Minister of Labor of the Republic of Indonesia (Indonesia, 4/2018). Absorbed through skin. TWA: 152 mg/m <sup>3</sup> 8 hours. TWA: 50 BDS 8 hours.
ethylbenzene 12-hydroxyoctadecanoic acid	l, reaction products with	Minister of Labor of the Republic of Indonesia (Indonesia, 4/2018). TWA: 20 BDS 8 hours. Ministry of Employment and Labor (Indonesia, 2/1997). STEL: 543 mg/m <sup>3</sup> 15 minutes. STEL: 125 BDS 15 minutes. ACGIH TLV (United States).
1,3-benzenedimethanamine	and hexamethylenediamine	TWA: 10 mg/m <sup>3</sup> Form: Inhalable particle TWA: 3 mg/m <sup>3</sup> , (inhalable dust) Form: Respirable particle
Recommended monitoring rocedures	atmosphere or biological monitorir of the ventilation or other control n protective equipment. Reference	with exposure limits, personal, workplace ag may be required to determine the effectiveness neasures and/or the necessity to use respiratory should be made to appropriate monitoring guidance documents for methods for the ances will also be required.
oppropriate engineering ontrols	ventilation or other engineering co contaminants below any recomme	. Use process enclosures, local exhaust ntrols to keep worker exposure to airborne nded or statutory limits. The engineering controls ust concentrations below any lower explosive tion equipment.
nvironmental exposure ontrols	they comply with the requirements cases, fume scrubbers, filters or e	process equipment should be checked to ensure of environmental protection legislation. In some ngineering modifications to the process duce emissions to acceptable levels.
		Indonesia <sup>:</sup> Page: 6/14

## Section 8. Exposure controls/personal protection

#### **Individual protection measures**

Hygiene measures	: Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.
Eye/face protection	: Chemical splash goggles and face shield.
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	<ul> <li>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.</li> </ul>
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.

## Section 9. Physical and chemical properties

<u>Appearance</u>	
Physical state	: Liquid.
Color	: Not available.
Odor	: Characteristic.
Odor threshold	: Not available.
рН	: Not available.
Melting point	: Not available.
Boiling point	: >37.78°C (>100°F)
Flash point	: Closed cup: 25.56°C (78°F)
Evaporation rate	: 0.53 (butyl acetate = 1)
Flammability/Combustible properties (solid, gas)	: Not available.
Lower and upper explosive (flammable) limits	: Greatest known range: Lower: 1.3% Upper: 13% (benzyl alcohol)

Date of issue 16 January 2020

Version 4.02

## Section 9. Physical and chemical properties

Viscosity	: Kinematic (40°C): >0.21 cm <sup>2</sup> /s
Decomposition temperature	: Not available.
Auto-ignition temperature	: Not available.
Partition coefficient: n- octanol/water	: Not available.
Solubility in water	: 0.5 g/l
Solubility	: Insoluble in the following materials: cold water.
Relative density	: 1.48
Vapor density	: Not available.
Vapor pressure	: 0.76 kPa (5.7 mm Hg) [room temperature]

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

## Section 11. Toxicological information

#### Information on toxicological effects

#### Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
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	-
benzyl alcohol	LC50 Inhalation Dusts and mists	Rat	>4178 mg/m <sup>3</sup>	4 hours
	LD50 Dermal	Rabbit	2000 mg/kg	-
	LD50 Oral	Rat	1.23 g/kg	-
2-methylpropan-1-ol	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	-
12-hydroxyoctadecanoic	LC50 Inhalation Dusts and mists	Rat	3.56 mg/l	4 hours
acid, reaction products with				
1,3-benzenedimethanamine				
			Indone	sia <sup>:</sup> Page:

Date of issue 16 January 2020

Version 4.02

roduct name SIGMACOVE	R 350 BASE REDB	ROWN 6	179					
ection 11. Toxico	ological info	ormat	ion					
and hexamethylenediamine	LD50 Dermal LD50 Oral		Rat Rat		>2000 mg/kg - >2000 mg/kg -		-	
Conclusion/Summary	: There are no da	ata availa	ble on	the mixtu	ure itself	f.		
Product/ingredient name	Result Spec		Spec	ies Score		Exposure		Observation
<b>x</b> ylene	Skin - Moderate in	- Moderate irritant Rabbit		-	24 hours 500 -		D -	
Epoxy resin (MW  ≤ 700)			Rabbi Rabbi		-		ıg	-
Conclusion/Summary								I
Skin Eyes Respiratory <u>Sensitization</u>	<ul> <li>There are no d</li> <li>There are no d</li> <li>There are no d</li> </ul>	ata availa	able on	the mixt	ure itsel	lf.		
Product/ingredient name	Route of exposure	Species			Result			
Epoxy resin (MW $\leq$ 700)	skin Mouse				Sensitizing			
Conclusion/Summary						1		
Skin Respiratory <u>Mutagenicity</u>		<ul><li>There are no data available on the mixture itself.</li><li>There are no data available on the mixture itself.</li></ul>						
Conclusion/Summary Carcinogenicity	: There are no data available on the mixture itself.							
Conclusion/Summary <u>Reproductive toxicity</u>	: There are no d	ata availa	able on	the mixt	ure itsel	lf.		
Conclusion/Summary <u>Teratogenicity</u>	: There are no d	ata availa	able on	the mixt	ure itsel	lf.		
Conclusion/Summary Specific target organ toxici	: There are no da ity (single exposur		able on	the mixt	ure itsel	lf.		
Name			Cat	egory		Route of exposur		arget organs
<b>F</b> alc , not containing asbesti	form fibres		Cat	egory 3	N	lot appli		Respiratory tract ritation
xylene						lot appli	icable. F	Respiratory tract ritation
2-methylpropan-1-ol			egory 3 egory 3		lot appli lot appli	icable. F	larcotic effects Respiratory tract	

Specific target organ toxicity (repeated exposure)

irritation

## Section 11. Toxicological information

Name	Category	Route of exposure	Target organs
crystalline silica, respirable powder (<10 microns) ethylbenzene 12-hydroxyoctadecanoic acid, reaction products with 1,3-benzenedimethanamine and hexamethylenediamine	Category 1 Category 2 Category 2	Inhalation Not determined Inhalation	Not determined hearing organs lungs

#### **Aspiration hazard**

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

Information on the likely routes of exposure	: Not available.
Potential acute health effects	<u>5</u>
Eye contact	: Causes serious eye damage.
Inhalation	: Harmful if inhaled. May cause respiratory irritation.
Skin contact	: Causes skin irritation. Defatting to the skin. May cause an allergic skin reaction.
Ingestion	: No known significant effects or critical hazards.
Symptoms related to the phy	vsical, chemical and toxicological characteristics
Eye contact	: Adverse symptoms may include the following: pain watering redness
Inhalation	: Adverse symptoms may include the following: respiratory tract irritation coughing
Skin contact	: Adverse symptoms may include the following: pain or irritation redness dryness cracking blistering may occur
Ingestion	: Adverse symptoms may include the following: stomach pains
Delayed and immediate effect	ts and also chronic effects from short and long term exposure
Short term exposure	
Potential immediate effects	: There are no data available on the mixture itself.
Potential delayed effects	: There are no data available on the mixture itself.
Long term exposure	
Potential immediate effects	: There are no data available on the mixture itself.
Potential delayed effects	: There are no data available on the mixture itself.
Potential chronic health eff	ects

### Product name SIGMACOVER 350 BASE REDBROWN 6179 Section 11. Toxicological information

	5
General	: May cause 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	: No known significant effects or critical hazards.
Mutagenicity	: No known significant effects or critical hazards.
Teratogenicity	: No known significant effects or critical hazards.
<b>Developmental effects</b>	: No known significant effects or critical hazards.
Fertility effects	: No known significant effects or critical hazards.

#### Numerical measures of toxicity

#### Acute toxicity estimates

Route	ATE value
Oral	13959.09 mg/kg
Dermal	2379.06 mg/kg
Inhalation (vapors)	24.56 mg/l
Inhalation (dusts and mists)	2.27 mg/l

#### Other information

There are no data available on the mixture itself. The mixture has been assessed following the conventional method of the CLP Regulation (EC) No 1272/2008 and is classified for toxicological properties accordingly. See Sections 2 and 3 for details.

Exposure to component solvent vapor concentrations in excess of the stated occupational exposure limit may result in adverse health effects such as mucous membrane and respiratory system irritation and adverse effects on the kidneys, liver and central nervous system. Symptoms and signs include headache, dizziness, fatigue, muscular weakness, drowsiness and, in extreme cases, loss of consciousness.

Solvents may cause some of the above effects by absorption through the skin. Repeated or prolonged contact with the mixture may cause removal of natural fat from the skin, resulting in non-allergic contact dermatitis and absorption through the skin.

If splashed in the eyes, the liquid may cause irritation and reversible damage.

Ingestion may cause nausea, diarrhea and vomiting.

This takes into account, where known, delayed and immediate effects and also chronic effects of components from short-term and long-term exposure by oral, inhalation and dermal routes of exposure and eye contact.

Based on the properties of the epoxy constituent(s) and considering toxicological data on similar mixtures, this mixture may be a skin sensitizer and an irritant. It contains low-molecular weight epoxy constituents which are irritating to eyes, mucous membranes and skin. Repeated skin contact may lead to irritation and to sensitization, possibly with cross-sensitization to other epoxies. Skin contact with the mixture and exposure to spray, mist and vapors should be avoided.

Contains Epoxy Resin (700<MW<=1100), Epoxy resin (MW ≤ 700). May produce an allergic reaction.

## Section 12. Ecological information

**Toxicity** 

## Section 12. Ecological information

Product/ingredient name	Result	Species	Exposure
Epoxy resin (MW ≤ 700)	Acute LC50 1.8 mg/l	Daphnia	48 hours
	Chronic NOEC 0.3 mg/l	Daphnia	21 days
2-methylpropan-1-ol	Acute EC50 1100 mg/l	Daphnia	48 hours
ethylbenzene	Acute LC50 150 to 200 mg/l Fresh water	Fish	96 hours
12-hydroxyoctadecanoic acid, reaction products with 1,3-benzenedimethanamine and hexamethylenediamine	Acute EC50 >100 mg/l	Algae - Pseudokirchneriella subcapitata (microalgae)	72 hours
	Acute EC50 >100 mg/l	Daphnia - Daphnia magna (Water flea)	48 hours
	Acute LC50 >100 mg/l	Fish - Oncorhynchus mykiss (rainbow trout)	96 hours
	Chronic NOEC 100 mg/l	Algae - Pseudokirchneriella subcapitata	72 hours
	Chronic NOEC ≥50 mg/l	Daphnia - Daphnia magna (Water flea)	21 days

#### Persistence/degradability

Product/ingredient name	Test	Result		Dose	Inoculum
Epoxy resin (MW ≤ 700) 12-hydroxyoctadecanoic acid, reaction products with 1,3-benzenedimethanamine and hexamethylenediamine	OECD 301F OECD 301D Ready Biodegradability - Closed Bottle Test	5 % - 28 days 9 % - Not readily - 2	29 days	-	-
Product/ingredient name	Aquatic half-life		Photolysis	S	Biodegradability
xylene Epoxy resin (MW ≤ 700) benzyl alcohol ethylbenzene	- - -		- - -		Readily Not readily Readily Readily

#### **Bioaccumulative potential**

Product/ingredient name	LogPow	BCF	Potential
xylene Epoxy resin (MW ≤ 700) benzyl alcohol 2-methylpropan-1-ol ethylbenzene 12-hydroxyoctadecanoic acid, reaction products with 1,3-benzenedimethanamine and hexamethylenediamine	3.16 3 1.1 0.76 3.15 >6	7.4 to 18.5 31 - - 79.43 -	low low low low low high

#### Mobility in soil

Soil/water partition coefficient (Koc)

: Not available.

Section 12. Ecological information

Other adverse effects

: No known significant effects or critical hazards.

### Section 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 nonrecyclable 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.

## Section 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	Ш
Environmental hazards	No.	No.	No.
Marine pollutant substances	Not applicable.	Not applicable.	Not applicable.

#### Additional information

UN : None identified.

: None identified. IMDG

ΙΑΤΑ : None identified.

Special precautions for user : Transport within user's premises: always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.

#### Product name SIGMACOVER 350 BASE REDBROWN 6179

Date of issue 16 January 2020 Version 4.02

Section 15. Regulatory information

- Safety, health and environmental regulations specific for the product
- : No known specific national and/or regional regulations applicable to this product (including its ingredients).

#### Law No. 74/2001 - Banned

None of the components are listed.

#### Law No. 74/2001 - Restricted

Ingredient name	Status
Mercury/Air Raksa	Listed

Law No. 74/2001 - : Not determined Chemicals that may be used

### Section 16. Other information

<u>History</u>	
Date of issue/Date of revision	: 16 January 2020
Date of previous issue	: 11/1/2019
Version	: 4.02
Prepared by	: EHS
Key to abbreviations	<ul> <li>ADN = European Provisions concerning the International Carriage of Dangerous Goods by Inland Waterway</li> <li>ADR = The European Agreement concerning the International Carriage of Dangerous Goods by Road</li> <li>ATE = Acute Toxicity Estimate</li> <li>BCF = Bioconcentration Factor</li> <li>GHS = Globally Harmonized System of Classification and Labelling of Chemicals IATA = International Air Transport Association</li> <li>IMDG = International Maritime Dangerous Goods</li> <li>LogPow = logarithm of the octanol/water partition coefficient</li> <li>MARPOL = International Convention for the Prevention of Pollution From Ships, 1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution)</li> <li>RID = The Regulations concerning the International Carriage of Dangerous Goods by Rail</li> <li>UN = United Nations</li> </ul>

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.