SAFETY DATA SHEET



Conforms to Official Mexican Standard NOM-018-STPS-2015

Date of revision 18 May 2020

Version 8

Date of issue 18 May 2020

SECTION 1: Identification of the substance/mixture and of the company/undertaking

Product name	: SIGMACOVER 350 BASE REDBROWN 6179
Product code	: 00333391
Other means of identification	: Not applicable.
Product type	: Liquid.
Relevant identified uses of	the substance or mixture and uses advised against
Product use	: Industrial applications, Used by spraying.
Use of the substance/ mixture	: Coating.
Uses advised against	Not applicable.
Manufacturer	: PPG Industries, Inc. One PPG Place Pittsburgh, PA 15272
<u>Emergency telephone</u> <u>number</u>	: (412) 434-4515 (U.S.) (514) 645-1320 (Canada) 01-800-00-21-400 or + 52 55 5559 1588 (Mexico)
Technical Phone Number	: 888-977-4762

SECTION 2: Hazards identification

Classification of the	: FLAMMABLE LIQUIDS - Category 3
substance or mixture	ACUTE TOXICITY (dermal) - Category 5
	ACUTE TOXICITY (inhalation) - Category 4
	SKIN IRRITATION - Category 2
	SERIOUS EYE DAMAGE - Category 1
	SKIN SENSITIZATION - Category 1
	CARCINOGENICITY - Category 1A
	SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Respiratory tract
	irritation) - Category 3
	SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) - Category 1
	Percentage of the mixture consisting of ingredient(s) of unknown acute toxicity:
	43.3% (Oral), 67.7% (Dermal), 69.5% (Inhalation)
GHS label elements	
Hazard pictograms	

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Product code 00333391

Product name SIGMACOVER 350 BASE REDBROWN 6179

SECTION 2: Hazards identification

Signal word	:	Danger
Hazard statements	:	₩226 - Flammable liquid and vapor.
		H313 - May be harmful in contact with skin.
		H315 - Causes skin irritation.
		H317 - May cause an allergic skin reaction.
		H318 - Causes serious eye damage.
		H332 - Harmful if inhaled.
		H335 - May cause respiratory irritation. H350 - May cause cancer.
		H350 - May cause cancer. H372 - Causes damage to organs through prolonged or repeated exposure.
		(hearing organs, lungs)
Precautionary statements		
Prevention	1	 ₱202 - Do not handle until all safety precautions have been read and understood. P280 - Wear protective gloves. Wear protective clothing. Wear eye or face
		protection. P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. P260 - Do not breathe vapor.
		P270 - Do not eat, drink or smoke when using this product. P264 - Wash thoroughly after handling.
Response	:	 ▶310 - Immediately call a POISON CENTER or doctor. ▶362 + ₱364 - Take off contaminated clothing and wash it before reuse. ▶302 + ₱352 - IF ON SKIN: Wash with plenty of water.
		P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
Storage	:	₱403 + P233 - Store in a well-ventilated place. Keep container tightly closed.
Disposal	:	Not applicable.
Other hazards which do not		Sanding and grinding dusts may be harmful if inhaled. Prolonged or repeated
result in classification		contact may dry skin and cause irritation. 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. This product contains crystalline silica which can cause lung cancer or silicosis. The risk of cancer depends on the duration and level of exposure to dust from sanding surfaces or mist from spray applications. Emits
Cas toxical anisal information		toxic fumes when heated.

See toxicological information (Section 11)

SECTION 3: Composition/information on ingredients

Substance/mixture Product name	Mixture SIGMACOVER 350 BASE REDBROWN 6179	
Other means of identification	Not applicable.	

SECTION 3: Composition/information on ingredients

Ingredient name	%	CAS number
✓alc , not containing asbestiform fibres	≥10 - ≤20	14807-96-6
Epoxy Resin (700 <mw<=1100)< td=""><td>≥10 - ≤20</td><td>67924-34-9</td></mw<=1100)<>	≥10 - ≤20	67924-34-9
xylene	≥10 - ≤12	1330-20-7
crystalline silica, respirable powder (<10 microns)	≥5.0 - ≤10	14808-60-7
crystalline silica, respirable powder (>10 microns)	≥5.0 - ≤10	14808-60-7
aluminium oxide	≥5.0 - ≤10	1344-28-1
bis-[4-(2,3-epoxipropoxi)phenyl]propane	≥5.0 - ≤10	1675-54-3
benzyl alcohol	≥1.0 - ≤5.0	100-51-6
diiron trioxide	≥1.0 - ≤5.0	1309-37-1
2-methylpropan-1-ol	≥1.0 - ≤3.8	78-83-1
ethylbenzene	≥0.10 - ≤2.9	100-41-4
12-hydroxyoctadecanoic acid, reaction products with	≤1.4	220926-97-6
1,3-benzenedimethanamine and hexamethylenediamine		

SUB codes represent substances without registered CAS Numbers.

Any concentration shown as a range is to protect confidentiality or is due to batch variation.

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.

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 :	\overline{M} ay be harmful in contact with skin. Causes skin irritation. Defatting to the skin.
	May cause an allergic skin reaction.
Ingestion :	No known significant effects or critical hazards.

Over-exposure signs/symptoms

See toxicological information (Section 11)

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

Notes to physician	: In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.
Specific treatments	: No specific treatment.

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SECTION 4: First aid measures

i: r F	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.
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SECTION 5: Firefighting measures

Extinguishing media	
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.
Hazardous thermal decomposition products	: Decomposition products may include the following materials: carbon oxides nitrogen 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.

SECTION 6: Accidental release measures

Personal precautions, protec	tiv	e 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).
Methods and materials for co	ont	ainment 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.
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SECTION 6: Accidental release measures

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

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. Avoid exposure - obtain special instructions before use. 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. 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.
Special precautions	:	Vapors may accumulate in low or confined areas or travel a considerable distance to a source of ignition and flash back. Vapors are heavier than air and may spread along floors. If this material is part of a multiple component system, read the Safety Data Sheet(s) for the other component or components before blending as the resulting mixture may have the hazards of all of its parts.
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.

SECTION 8: Exposure controls/personal protection

Control parameters

Occupational exposure limits

Ingredient name	Exposure limits
alc , not containing asbestiform fibres	NOM-010-STPS-2014 (Mexico, 4/2016). STEL: 2 mg/m ³ 15 minutes. Form:
	Respirable
Epoxy Resin (700 <mw<=1100)< td=""><td>None.</td></mw<=1100)<>	None.
xylene	NOM-010-STPS-2014 (Mexico, 4/2016).
A) on o	STEL: 150 ppm 15 minutes.
	TWA: 100 ppm 8 hours.
crystalline silica, respirable powder (<10 microns)	NOM-010-STPS-2014 (Mexico, 4/2016).
	TWA: 0.025 mg/m ³ 8 hours. Form:
	Respirable
crystalline silica, respirable powder (>10 microns)	NOM-010-STPS-2014 (Mexico, 4/2016).
	TWA: 0.025 mg/m ³ 8 hours. Form:
	Respirable
aluminium oxide	NOM-010-STPS-2014 (Mexico, 4/2016).
	TWA: 10 mg/m ³ 8 hours.
bis-[4-(2,3-epoxipropoxi)phenyl]propane	None.
benzyl alcohol	IPEL (PPG).
	TWA: 10 ppm
	STEL: 50 ppm
diiron trioxide	NOM-010-STPS-2014 (Mexico, 4/2016).
	TWA: 5 mg/m ³ 8 hours. Form: Respirable
	fraction
2-methylpropan-1-ol	NOM-010-STPS-2014 (Mexico, 4/2016).
	TWA: 50 ppm 8 hours.
ethylbenzene	NOM-010-STPS-2014 (Mexico, 4/2016).
10 hudrovusetedeeensis said repetien products with	TWA: 20 ppm 8 hours.
12-hydroxyoctadecanoic acid, reaction products with 1,3-benzenedimethanamine and hexamethylenediamine	ACGIH TLV (United States).
	TWA: 10 mg/m ³ Form: Inhalable particle TWA: 3 mg/m ³ , (inhalable dust) Form:
	Respirable particle

Key to abbreviations

С	= Ceiling Limit	STEL	= Short term exposure limit
IPEL	= Internal Permissible Exposure Limit		= Threshold Limit Value
		IWA	= Time Weighted Average

Consult local authorities for acceptable exposure limits.

Recommended monitoring procedures	: If this product contains ingredients with exposure limits, personal, workplace atmosphere or biological monitoring may be required to determine the effectiveness of the ventilation or other control measures and/or the necessity to use respiratory protective equipment. Reference should be made to appropriate monitoring standards. Reference to national guidance documents for methods for the determination of hazardous substances will also be required.
Appropriate engineering controls	: Use only with adequate ventilation. Use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits. The engineering controls also need to keep gas, vapor or dust concentrations below any lower explosive limits. Use explosion-proof ventilation equipment.

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SECTION 8: Exposure controls/personal protection

Environmental exposure controls	:	Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.
Individual protection measure		
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	1	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	1	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.

SECTION 9: Physical and chemical properties

Flammability (solid, gas)	1	Not available.	
Decomposition temperature	:	Not available.	
Auto-ignition temperature	1	Not available.	
Flash point	1	Closed cup: 25.56°C (78°F)	
Boiling point	÷	>37.78°C (>100°F)	
Melting point	1	Not available.	
рН	÷	Not available.	
Molecular weight	1	Not applicable.	
Odor threshold	1	Not available.	
Odor	1	Characteristic.	
Color	1	Not available.	
Physical state	1	Liquid.	
<u>Appearance</u>			

SECTION 9: Physical and chemical properties

Lower and upper explosive (flammable) limits	: Not available.
Evaporation rate	: 0.53 (butyl acetate = 1)
Vapor pressure	: 0.76 kPa (5.7 mm Hg) [room temperature]
Vapor density	: Not available.
Relative density	: 1.48
Density(lbs / gal)	: 12.35
Solubility	: Insoluble in the following materials: cold water.
Solubility in water	: 0.5 g/l
Partition coefficient: n- octanol/water	: Not available.
Viscosity	: Kinematic (40°C (104°F)): >0.21 cm²/s (>21 cSt)
Volatility	: 39% (v/v), 23.34% (w/w)
% Solid. (w/w)	: 76.66

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. Refer to protective measures listed in sections 7 and 8.
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

Αсι	110	+01	1437
ALI	JLE	LUA	ILV

Product/ingredient name	Result	Species	Dose	Exposure
xylene	LD50 Dermal	Rabbit	>1.7 g/kg	-
	LD50 Oral	Rat	4.3 g/kg	-
bis-[4-(2,3-epoxipropoxi)	LD50 Dermal	Rabbit	23000 mg/kg	-
phenyl]propane				
	LD50 Oral	Rat	15000 mg/kg	-
benzyl alcohol	LC50 Inhalation Dusts and mists	Rat	>4178 mg/m ³	4 hours
	LD50 Dermal	Rabbit	2000 mg/kg	-
	LD50 Oral	Rat	1.23 g/kg	-
diiron trioxide	LC50 Inhalation Dusts and mists	Rat	>5 mg/l	4 hours
	LD50 Oral	Rat	10 g/kg	-
2-methylpropan-1-ol	LC50 Inhalation Vapor	Rat	24.6 mg/l	4 hours
	LD50 Dermal	Rabbit	2460 mg/kg	-

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roduct name SIGMACOVI	ER 350 B	ASE R	EDBRO	WN	6179					
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ethylbenzene	LD50 Ora LC50 Inha LD50 Der LD50 Ora	apor		Rat Rat Rabbit Rat		2830 mg/kg 17.8 mg/l 17.8 g/kg 3.5 g/kg		- 4 hou - -	ırs	
12-hydroxyoctadecanoic acid, reaction products with 1,3-benzenedimethanamine and hexamethylenediamine	LC50 Inha	alation Du	usts and n	nists	Rat		3.56 n		4 hou	ırs
	LD50 Der LD50 Ora				Rat Rat			>2000 mg/kg - >2000 mg/kg -		
Conclusion/Summary rritation/Corrosion	: There a	are no da	ta availab	le on	the mixtu	re itse	lf.			
Product/ingredient name	Result			Spe	cies	Scor	е	Exposure	0	oservation
x ylene	Skin - Mo	oderate ir	ritant	Rabl	oit	-		24 hours 50 mg	0 -	
bis-[4-(2,3-epoxipropoxi) phenyl]propane	Eyes - Re conjunctiv	vae		Rabl	pit	0.4		24 hours	-	
	Eyes - Mi Skin - Ery			Rabl Rabl		- 0.8		24 hours 4 hours	-	
	Skin - Ed Skin - Mil		Rabbit 0.5 Rabbit -		4 hours 4 hours 4 hours		-			
Respiratory ensitization		are no da	ta availab	le on	the mixtu	re itse	1			
Product/ingredient name	Route of exposure		Species				Result	t		
pís-[4-(2,3-epoxipropoxi) phenyl]propane	skin		Mouse				Sensit	izing		
Conclusion/Summary										
Skin			ta availab							
Respiratory <u>Autagenicity</u>	: There a	are no da	ta availab	le on	the mixtu	re itse	lt.			
Conclusion/Summary Carcinogenicity	: There a	are no da	ta availab	le on	the mixtu	re itse	lf.			
Conclusion/Summary	: There a	are no da	ta availab	le on	the mixtu	re itse	lf.			
Classification	00114									
Product/ingredient name	OSHA		NTP							
xylene crystalline silica, respirable powder (<10 microns)	-	3 1	- Knowr	n to b	e a humar	n carci	nogen.			
crystalline silica, respirable powder (>10 microns)	-	1	Knowr	n to b	e a humar	n carci	nogen.			
bis-[4-(2,3-epoxipropoxi) phenyl]propane diiron trioxide	-	3 3	-							
ethylbenzene	-	3 2B	-							

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SECTION 11: Toxicological information

L	ARC	: 1, 2A	2B,	3, 4		
N	ITP:	Know	n to	be a	human	С

NTP: Known to be a human carcinogen; Reasonably anticipated to be a human carcinogen OSHA: + Not listed/not regulated: -

Reproductive toxicity

Conclusion/Summary

: There are no data available on the mixture itself.

Teratogenicity

Conclusion/Summary : There are no data available on the mixture itself.

Specific target organ toxicity (single exposure)

Name	Category	Route of exposure	Target organs
ralc , not containing asbestiform fibres	Category 3	-	Respiratory tract irritation
xylene	Category 3	-	Respiratory tract irritation
2-methylpropan-1-ol	Category 3	-	Respiratory tract irritation
	Category 3		Narcotic effects

Specific target organ toxicity (repeated exposure)

Name	Category	Route of exposure	Target organs
Fystalline silica, respirable powder (<10 microns) ethylbenzene 12-hydroxyoctadecanoic acid, reaction products with 1,3-benzenedimethanamine and hexamethylenediamine	Category 1 Category 2 Category 2	inhalation - inhalation	- hearing organs lungs

Target organs

: Contains material which causes damage to the following organs: blood, kidneys, liver, heart, spleen, brain, bone marrow, central nervous system (CNS). Contains material which may cause damage to the following organs: lungs, the nervous system, cardiovascular system, upper respiratory tract, immune system, skin, ears, eye, lens or cornea.

Aspiration hazard

Name	Result
xylene	ASPIRATION HAZARD - Category 1
benzyl alcohol	ASPIRATION HAZARD - Category 2
2-methylpropan-1-ol	ASPIRATION HAZARD - Category 2
ethylbenzene	ASPIRATION HAZARD - Category 1

Information on the likely routes of exposure

Potential acute health effectsEye contact: Causes serious eye damage.Inhalation: Harmful if inhaled. May cause respiratory irritation.Skin contact: May be harmful in contact with skin. Causes skin irritation. Defatting to the skin.
May cause an allergic skin reaction.Ingestion: No known significant effects or critical hazards.Over-exposure signs/symptoms

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SECTION 11: Toxicological information

		с С
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 effe	cts	and also chronic effects from short and long term exposure
Conclusion/Summary	:	There are no data available on the mixture itself. This product contains crystalline silica which can cause lung cancer or silicosis. The risk of cancer depends on the duration and level of exposure to dust from sanding surfaces or mist from spray applications. 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. There is some evidence that repeated exposure to organic solvent vapors in combination with constant loud noise can cause greater hearing loss than expected from exposure to noise alone. 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.
Short term exposure		
Potential immediate effects	:	There are no data available on the mixture itself.
Potential delayed effects Long term exposure	:	There are no data available on the mixture itself.
Potential immediate effects	:	There are no data available on the mixture itself.
Potential delayed effects	1	There are no data available on the mixture itself.
Potential chronic health effe	ects	
General	:	Causes damage to organs through prolonged or repeated exposure. Prolonged or repeated contact can defat the skin and lead to irritation, cracking and/or dermatitis. Once sensitized, a severe allergic reaction may occur when subsequently exposed to very low levels.
Carcinogenicity	:	May cause cancer. Risk of cancer depends on duration and level of exposure.
Mutagenicity	:	No known significant effects or critical hazards.
Teratogenicity	:	No known significant effects or critical hazards.
Developmental effects	:	No known significant effects or critical hazards.
Fertility effects	:	No known significant effects or critical hazards.
Numerical measures of toxi	<u>city</u>	

SECTION 11: Toxicological information

Acute toxicity estimates

Product/ingredient name	Oral (mg/ kg)	Dermal (mg/kg)	Inhalation (gases) (ppm)	Inhalation (vapors) (mg/l)	Inhalation (dusts and mists) (mg/l)
SIGMACOVER 350 BASE REDBROWN 6179	6000.2	2065.2	N/A	24.6	2.3
xylene	4300	1100	N/A	11	1.5
bis-[4-(2,3-epoxipropoxi)phenyl]propane	15000	23000	N/A	N/A	N/A
benzyl alcohol	1230	2000	N/A	N/A	1.5
diiron trioxide	10000	N/A	N/A	N/A	N/A
2-methylpropan-1-ol	2830	2460	N/A	24.6	N/A
ethylbenzene	3500	17800	N/A	17.8	1.5
12-hydroxyoctadecanoic acid, reaction products with 1,3-benzenedimethanamine and hexamethylenediamine	2500	2500	N/A	N/A	3.56

SECTION 12: Ecological information

<u>Toxicity</u>			
Product/ingredient name	Result	Species	Exposure
ቓis-[4-(2,3-epoxipropoxi) phenyl]propane	Acute LC50 1.8 mg/l Fresh water	Daphnia - daphnia magna	48 hours
	Chronic NOEC 0.3 mg/l	Daphnia	21 days
diiron trioxide	Acute EC50 >100 mg/l	Daphnia	48 hours
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	Àlgae - Pseudokirchneriella subcapitata	72 hours
	Chronic NOEC ≥50 mg/l	Daphnia - Daphnia magna (Water flea)	21 days

Persistence and degradability

Product/ingredient name	Test	Result	Dose	Inoculum
acid, reaction products with 1,3-benzenedimethanamine	OECD 301D Ready Biodegradability - Closed Bottle Test	9 % - Not readily - 29 days	-	-

SECTION 12: Ecological information

Product/ingredient name	Aquatic half-life	Photolysis	Biodegradability
vylene bis-[4-(2,3-epoxipropoxi) phenyl]propane	-	-	Readily Not readily
benzyl alcohol ethylbenzene	-	-	Readily Readily

Bioaccumulative potential

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

Mobility in soil

Soil/water partition	: Not available.
coefficient (Koc)	

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

SECTION 13: Disposal considerations

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: The generation of waste should be avoided or minimized wherever possible.
Disposal methods
                                  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.
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Disposal should be in accordance with applicable regional, national and local laws and regulations. Refer to Section 7: HANDLING AND STORAGE and Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION for additional handling information and protection of employees. Section 6. Accidental release measures

SECTION 14: Transport information

Mexico Classification UN1263	IMDG	ΙΑΤΑ
UN1263	11114.000	
	UN1263	UN1263
PAINT	PAINT	PAINT
3	3	3
III	III	III
No.	No.	No.
Not applicable.	Not applicable.	Not applicable.
Not applicable.	Not applicable.	Not applicable.
Not applicable.	Not applicable.	Not applicable.
	PAINT 3 III No. Not applicable. Not applicable.	PAINT PAINT 3 3 III III No. No. Not applicable. Not applicable.

Additional information

Mexico	: None identified.
IMDG	: None identified.
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.

Transport in bulk according : Not applicable. to IMO instruments

SECTION 15: Regulatory information

<u>Mexico</u>								
Classification								
Flammability	:	3	Health	:	3	Reactivity	:	0
International regu	lati	<u>ons</u>						
Montreal Protoc	<u>ol</u>							
Not listed.								
Stockholm Convention on Persistent Organic Pollutants								
Not listed.								
Rotterdam Convention on Prior Informed Consent (PIC)								
Not listed.								

SECTION 16: Other information

Hazardous Material Information System (U.S.A.)

Health : 3 * Flammability : 3 Physical hazards : 0 (*) - Chronic

effects

Caution: HMIS® ratings are based on a 0-4 rating scale, with 0 representing minimal hazards or risks, and 4 representing significant hazards or risks. HMIS® ratings are to be used with a fully implemented HMIS® program. HMIS® is a registered trademark and service mark of the American Coatings Association, Inc.

The customer is responsible for determining the PPE code for this material. For more information on HMIS® Personal Protective Equipment (PPE) codes, consult the HMIS® Implementation Manual.

Date of previous issue	: 1/16/2020
Organization that prepared the MSDS	: EHS
Key to abbreviations	: ATE = Acute Toxicity Estimate BCF = Bioconcentration Factor GHS = Globally Harmonized System of Classification and Labelling of Chemicals IATA = International Air Transport Association IBC = International Air Transport Association IBC = 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) N/A = Not available SGG = Segregation Group UN = United Nations

Indicates information that has changed from previously issued version.

Notice to reader

The information, which is based on the current knowledge of the chemical substance or mixture and applies to appropriate safety precautions for the product, is deemed correct but is not exhaustive and will be used only as a guide.

Disclaimer

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.