SAFETY DATA SHEET



Date of issue/Date of revision 7 June 2021 Version 16

Section 1. Identification		
Product name	: AMERCOAT 385LH SOLAR RED RESIN	
Product code	: AT385LH702	
Other means of identification	: Not available.	
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) SETIQ Interior de la República: 800-00-214-00 (México) SETIQ Ciudad de México: (55) 5559-1588 (México)	
Technical Phone Number	: 888-977-4762	

Section 2. Hazards identification

OSHA/HCS status	 This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).
Classification of the substance or mixture	: FLAMMABLE LIQUIDS - Category 3 SKIN IRRITATION - Category 2 EYE IRRITATION - Category 2A SKIN SENSITIZATION - Category 1 CARCINOGENICITY - Category 2
	Percentage of the mixture consisting of ingredient(s) of unknown acute toxicity: 6.9% (oral), 11.4% (dermal), 75.7% (inhalation)
	This product contains TiO2 which has been classified as a GHS Carcinogen Category 2 based on its IARC 2B classification. For many PPG products, TiO2 is utilized as a raw material in a liquid coating formulation. In this case, the TiO2 particles are bound in a matrix with no meaningful potential for human exposure to unbound particles of TiO2 when the product is applied with a brush or roller. Sanding the coating surface or mist from spray applications may be harmful depending on the duration and level of exposure and require the use of appropriate personal protective equipment and/or engineering controls (see Section 8).
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Section 2. Hazards identification

GHS label elements

Hazard pictograms



Signal word	: Warning	
Hazard statements	Flammable liquid and vapor. Causes skin irritation. May cause an allergic skin reaction. Causes serious eye irritation. Suspected of causing cancer.	
Precautionary statements		
Prevention	: Øbtain special instructions before use. Do not handle until all safety precautions have been read and understood. Wear protective gloves, protective clothing and eye or face protection. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Use explosion-proof electrical, ventilating or lighting equipment.	

	Use non-sparking tools. Take action to prevent static discharges. Keep container tightly closed. Avoid breathing vapor. Wash thoroughly after handling. Contaminated work clothing must not be allowed out of the workplace.
Response	: IF exposed or concerned: Get medical advice or attention. IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water. Wash contaminated clothing before reuse. IF ON SKIN: Wash with plenty of water. If skin irritation or rash occurs: Get medical advice or attention. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice or attention.
Storage	: 🛿 tore 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.
Supplemental label elements	: 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. Wash thoroughly after handling. Emits toxic fumes when heated.
Hazards not otherwise	: Prolonged or repeated contact may dry skin and cause irritation.

Hazards not otherwise classified

Section 3. Composition/information on ingredients

Substance/mixture	:	Mixture
Product name	:	AMERCOAT 385LH SOLAR RED RESIN

Product name AMERCOAT 385LH SOLAR RED RESIN

Section 3. Composition/information on ingredients

Ingredient name	%	CAS number
s-[4-(2,3-epoxipropoxi)phenyl]propane	≥20 - ≤50	1675-54-3
heptan-2-one	≥5.0 - ≤7.2	110-43-0
n-butyl acetate	≥1.0 - ≤5.0	123-86-4
diiron trioxide	≥1.0 - ≤5.0	1309-37-1
Isopropyl alcohol	≥1.0 - ≤3.8	67-63-0
butan-1-ol	≥0.10 - ≤2.5	71-36-3
3-butoxypropan-2-ol	≥0.10 - ≤2.7	5131-66-8
titanium dioxide	≤1.0	13463-67-7
ethylbenzene	<1.0	100-41-4

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

If ingestion, irritation, any type of overexposure or symptoms of overexposure occur during or persists after use of this product, contact a POISON CONTROL CENTER, EMERGENCY ROOM OR PHYSICIAN immediately; have Safety Data Sheet information available. Never give anything by mouth to an unconscious or convulsing person. Description of necessary first aid measures

Description of nece	<u>ssary mist alu measures</u>
Eve contact	Remove contact lenses irrigate co

Eye contact	 Remove contact lenses, irrigate copiously with clean, fresh water, holding the eyelids apart for at least 10 minutes and seek immediate medical advice.
Inhalation	 Remove to fresh air. Keep person warm and at rest. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel.
Skin contact	 Remove contaminated clothing and shoes. Wash skin thoroughly with soap and water or use recognized skin cleanser. Do NOT use solvents or thinners.
Ingestion	 If swallowed, seek medical advice immediately and show this container or label. Keep person warm and at rest. Do NOT induce vomiting.

Most important symptoms/effects, acute and delayed

Potential acute health	effects
Eye contact	: Causes serious eye irritation.
Inhalation	: No known significant effects or critical hazards.
Skin contact	: Causes skin irritation. Defatting to the skin. May cause an allergic skin reaction.
Ingestion	: No known significant effects or critical hazards.
Over-exposure signs/s	<u>ymptoms</u>
Eye contact	: Adverse symptoms may include the following: pain or irritation watering redness
Inhalation	: No specific data.

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Section 4. First aid measures

Skin contact	: Adverse symptoms may include the following: irritation redness
	dryness
Ingestion	cracking : No specific data.
Indication of immediate me	dical 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	: No specific treatment.
Protection of first-aiders	: No action shall be taken involving any personal risk or without suitable training. 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)

Section 5. Fire-fighting measures

: Use dry chemical, CO ₂ , water spray (fog) or foam.
: Do not use water jet.
: Flammable liquid and vapor. In a fire or if heated, a pressure increase will occur and the container may burst, with the risk of a subsequent explosion. Vapors may accumulate in low or confined areas or travel a considerable distance to a source of ignition and flash back. Runoff to sewer may create fire or explosion hazard.
: Decomposition products may include the following materials: carbon oxides metal oxide/oxides
: 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.
: 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, protective equipment and emergency procedures

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

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Section 6. Accidental release measures

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.
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 : Put on appropriate personal protective equipment (see Section 8). Persons with a **Protective measures** 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 ingest. Avoid breathing vapor or mist. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Do not enter storage areas and confined spaces unless adequately ventilated. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Store and use away from heat, sparks, open flame or any other ignition source. Use explosion-proof electrical (ventilating, lighting and material handling) equipment. Use 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. Eating, drinking and smoking should be prohibited in areas where this material is Advice on general handled, stored and processed. Workers should wash hands and face before eating, occupational hygiene drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.

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Section 7. Handling and storage

Conditions for safe storage, including any incompatibilities	: 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.

Section 8. Exposure controls/personal protection

Control parameters

Occupational exposure limits

None. ACGIH TLV (United States, 3/2020).
TWA: 233 mg/m ³ 8 hours.
TWA: 50 ppm 8 hours.
OSHA PEL (United States, 5/2018).
TWA: 465 mg/m ³ 8 hours.
TWA: 100 ppm 8 hours.
OSHA PEL (United States, 5/2018).
TWA: 710 mg/m ³ 8 hours.
TWA: 150 ppm 8 hours.
ACGIH TLV (United States, 3/2020).
STEL: 150 ppm 15 minutes.
TWA: 50 ppm 8 hours.
OSHA PEL (United States, 5/2018).
TWA: 10 mg/m ³ 8 hours. Form: Fume
TWA: 5 mg/m ³ 8 hours. Form: Respirable
fraction
TWA: 15 mg/m ³ 8 hours. Form: Total dust
ACGIH TLV (United States, 3/2020).
TWA: 5 mg/m ³ 8 hours. Form: Respirable
fraction
ACGIH TLV (United States, 3/2020).
STEL: 400 ppm 15 minutes.
TWA: 200 ppm 8 hours.
OSHA PEL (United States, 5/2018).
TWA: 980 mg/m ³ 8 hours.
TWA: 400 ppm 8 hours.
ACGIH TLV (United States, 3/2020).
TWA: 20 ppm 8 hours.
OSHA PEL (United States, 5/2018).
TWA: 300 mg/m ³ 8 hours.
TWA: 100 ppm 8 hours.
IPEL (-).
TWA: 50 ppm
OSHA PEL (United States, 5/2018).
TWA: 15 mg/m ³ 8 hours. Form: Total dust
ACGIH TLV (United States, 3/2020).
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STEL

TD

TLV

TWA

= Short term Exposure limit values

= Threshold Limit Value

= Time Weighted Average

= Total dust

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Section 8. Exposure controls/personal protection

ethylbenzene		TWA: 10 mg/m ³ 8 hours. ACGIH TLV (United States, 3/2020). TWA: 20 ppm 8 hours. OSHA PEL (United States, 5/2018). TWA: 435 mg/m ³ 8 hours. TWA: 100 ppm 8 hours.
	Key to abbreviations	
Α	 Acceptable Maximum Peak 	S = Potential skin absorption
ACGIH	 American Conference of Governmental Industrial Hygienists. 	SR = Respiratory sensitization
С	= Ceiling Limit	SS = Skin sensitization

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С	 Ceiling Limit
_	-

= Fume F

IPEL = Internal Permissible Exposure Limit

- OSHA = Occupational Safety and Health Administration.
 - = Respirable R

Ζ = OSHA 29 CFR 1910.1200 Subpart Z - Toxic and Hazardous Substances

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.
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 measur	<u>es</u>	
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.
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

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Section 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. The respiratory protection shall be in accordance to 29 CFR 1910.134.

Section 9. Physical and chemical properties

<u>Appearance</u>	
Physical state	: Liquid.
Color	: Red.
Odor	: Characteristic.
Odor threshold	: Not available.
рН	: Not applicable.
Melting point	: Not available.
Boiling point	: >37.78°C (>100°F)
Flash point	: Closed cup: 27.78°C (82°F)
Auto-ignition temperature	: Not available.
Decomposition temperature	: Not available.
Flammability (solid, gas)	: Not available.
Lower and upper explosive (flammable) limits	: Not available.
Evaporation rate	: Not available.
Vapor pressure	: Not available.
Vapor density	: Not available.
Relative density	: 1.33
Density(lbs / gal)	: 11.1
Solubility	: Insoluble in the following materials: cold water.
Partition coefficient: n- octanol/water	: Not applicable.
Viscosity	: ₭inematic (40°C (104°F)): >21 mm²/s (>21 cSt)
Volatility	: 30% (v/v), 18.658% (w/w)
% Solid. (w/w)	: 81.342

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

Section 11. Toxicological information

Information on toxicological effects

Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure	
bis-[4-(2,3-epoxipropoxi) phenyl]propane	LD50 Dermal	Rabbit	23000 mg/kg	-	
	LD50 Oral	Rat	15000 mg/kg	-	
heptan-2-one	LC50 Inhalation Vapor	Rat	16.7 mg/l	4 hours	
•	LD50 Dermal	Rabbit	10.206 g/kg	-	
	LD50 Oral	Rat	1.6 g/kg	-	
n-butyl acetate	LC50 Inhalation Vapor	Rat	>21.1 mg/l	4 hours	
	LC50 Inhalation Vapor	Rat	2000 ppm	4 hours	
	LD50 Dermal	Rabbit	>17600 mg/kg	-	
	LD50 Oral	Rat	10.768 g/kg	-	
diiron trioxide	LC50 Inhalation Dusts and mists	Rat	>5 mg/l	4 hours	
	LD50 Oral	Rat	10 g/kg	-	
Isopropyl alcohol	LC50 Inhalation Vapor	Rat	72600 mg/m ³	4 hours	
	LD50 Dermal	Rabbit	12800 mg/kg	-	
	LD50 Oral	Rat	5045 mg/kg	-	
butan-1-ol	LC50 Inhalation Vapor	Rat	24000 mg/m ³	4 hours	
	LC50 Inhalation Vapor	Rat	8000 ppm	4 hours	
	LD50 Dermal	Rabbit	3400 mg/kg	-	
	LD50 Oral	Rat	790 mg/kg	-	
3-butoxypropan-2-ol	LD50 Dermal	Rabbit	3100 mg/kg	-	
	LD50 Oral	Rat	2.2 g/kg	-	
titanium dioxide	LC50 Inhalation Dusts and mists	Rat	>6.82 mg/l	4 hours	
	LD50 Dermal	Rabbit	>5000 mg/kg	-	
	LD50 Oral	Rat	>5000 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	-	

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Section 11. Toxicological information

Conclusion/Summary	: There are	e no data	a availabl	e on the mixt	ure itself.			
Irritation/Corrosion								
Product/ingredient name	Result			Species	Score	Ехро	sure	Observation
bis-[4-(2,3-epoxipropoxi) phenyl]propane	Eyes - Redness of conjunctivae		the	Rabbit	0.4	24 ho	urs	-
	Eyes - Mild			Rabbit	-	24 ho		-
	Skin - Eryt		schar	Rabbit	0.8	4 hou		-
	Skin - Ede Skin - Mild			Rabbit Dabbit	0.5	4 hou		-
	SKIN - MIIU	Imani		Rabbit	-	4 hou	15	-
Conclusion/Summary	. There en	- un data		a an tha mint	una itaalf			
Skin				e on the mixt				
Eyes				e on the mixt				
Respiratory	: There are	e no data	a availabl	e on the mixt	ure itself.			
<u>Sensitization</u>	1	, in the second s				1		
Product/ingredient name	Route of exposure		Species	i		Result		
bis-[4-(2,3-epoxipropoxi) phenyl]propane	skin Mouse Sensitizing							
Conclusion/Summary								
Skin	: There are	e no data	a availabl	e on the mixt	ure itself.			
Respiratory	: There are no data available on the mixture itself.							
Mutagenicity								
Conclusion/Summary	• There are	a no data	a availabl	e on the mixt	ure itself			
Carcinogenicity	. more are							
	. There er	o no dota	o voilabl	o on the mixt	ura itaalf			
Conclusion/Summary	: There are	e no dala	available	e on the mixt	ure itself.			
<u>Classification</u>		1						
Product/ingredient name	OSHA	IARC	NTP					
øis-[4-(2,3-epoxipropoxi) phenyl]propane	-	3	-					
diiron trioxide	-	3	-					
Isopropyl alcohol	-	3	-					
titanium dioxide	-	2B	-					
ethylbenzene	-	2B	-					
Carcinogen Classification	i code:							
IARC: 1, 2A, 2B, 3, NTP: Known to b OSHA: + Not listed/not regu	e a human carc	:inogen; R	easonably	anticipated to	be a human	carcinogen		
Reproductive toxicity								
Conclusion/Summary	: There are	no data	available	on the mixtu	ure itself.			
<u>Feratogenicity</u>								
Conclusion/Summary	: There are	no data	available	on the mixtu	ure itself.			
Specific target organ toxicity								

Specific target organ toxicity (single exposure)

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Section 11. Toxicological information

Name	Category	Route of exposure	Target organs
heptan-2-one n-butyl acetate Isopropyl alcohol butan-1-ol	Category 3 Category 3 Category 3 Category 3 Category 3	- - -	Narcotic effects Narcotic effects Narcotic effects Respiratory tract irritation Narcotic effects

Specific target organ toxicity (repeated exposure)

Name		Route of exposure	Target organs
ethylbenzene	Category 2	-	hearing organs

Target organs

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

Aspiration hazard

Name	Result
ethylbenzene	ASPIRATION HAZARD - Category 1

Information on the likely routes of exposure

Potential acute health effects

Eye contact Inhalation Skin contact Ingestion	 Causes serious eye irritation. No known significant effects or critical hazards. Causes skin irritation. Defatting to the skin. May cause an allergic skin reaction. No known significant effects or critical hazards.
<u>Over-exposure signs/s</u>	<u>ymptoms</u>
Eye contact	: Adverse symptoms may include the following: pain or irritation watering redness
Inhalation	: No specific data.
Skin contact	: Adverse symptoms may include the following: irritation redness dryness cracking
Ingestion	: No specific data.
Delayed and immediate	<u>effects and also chronic effects from short and long term exposure</u>

Product name AMERCOAT 385LH SOLAR RED RESIN

Section 11. Toxicological information

Conclusion/Summary	:	There are no data available on the mixture itself. This product contains TiO2 which has been classified as a GHS Carcinogen Category 2 based on its IARC 2B classification. For many PPG products, TiO2 is utilized as a raw material in a liquid coating formulation. In this case, the TiO2 particles are bound in a matrix with no meaningful potential for human exposure to unbound particles of TiO2 when the product is applied with a brush or roller. Sanding the coating surface or mist from spray applications may be harmful depending on the duration and level of exposure and require the use of appropriate personal protective equipment and/or engineering controls (see Section 8). 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.
<u>Short term exposure</u>		
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.
<u>Long term exposure</u>		
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 eff	<u>ect</u>	<u>S</u>
General	-	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	1	Suspected of causing cancer. Risk of cancer depends on duration and level of exposure.
Mutagenicity	1	No known significant effects or critical hazards.
Reproductive toxicity	:	No known significant effects or critical hazards.
humerical measures of toxic	itv	

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Acute toxicity estimates

Product/ingredient name	Oral (mg/ kg)	Dermal (mg/kg)	Inhalation (gases) (ppm)	Inhalation (vapors) (mg/l)	Inhalation (dusts and mists) (mg/ I)
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Section 11. Toxicological information

Ŭ						
MERCOAT 385LH SOLAR RED RESIN	13724.3	92900.8	N/A	61.5	5.5	
bis-[4-(2,3-epoxipropoxi)phenyl]propane	15000	23000	N/A	N/A	N/A	
heptan-2-one	1600	10206	N/A	16.7	1.5	
n-butyl acetate	10768	N/A	N/A	N/A	N/A	
diiron trioxide	10000	N/A	N/A	N/A	N/A	
Isopropyl alcohol	5045	12800	N/A	72.6	N/A	
butan-1-ol	790	3400	N/A	24	N/A	
3-butoxypropan-2-ol	2200	3100	N/A	N/A	N/A	
ethylbenzene	3500	17800	N/A	17.8	1.5	

Section 12. Ecological information

Toxicity

Product/ingredient name	Result	Species	Exposure
s-[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
heptan-2-one	Acute LC50 131 mg/l	Fish	96 hours
n-butyl acetate	Acute LC50 18 mg/l	Fish	96 hours
diiron trioxide	Acute EC50 >100 mg/l	Daphnia	48 hours
Isopropyl alcohol	Acute EC50 10100 mg/l Fresh water	Daphnia - Daphnia magna	48 hours
butan-1-ol	Acute LC50 1376 mg/l	Fish	96 hours
titanium dioxide	Acute LC50 >100 mg/l Fresh water	Daphnia - Daphnia magna	48 hours
ethylbenzene	Acute LC50 150 to 200 mg/l Fresh water	Fish	96 hours

Persistence and degradability

Product/ingredient name	Test	Result		Dose		Inoculum
reptan-2-one n-butyl acetate	OECD 310 TEPA and OECD 301D		dily - 28 days dily - 28 days	-		-
Product/ingredient name	Aquatic half-life		Photolysis		Biodeg	radability
ofs-[4-(2,3-epoxipropoxi)	-		-		Not read	dily
heptan-2-one n-butyl acetate ethylbenzene	- - -		- - -		Readily Readily Readily	

Bioaccumulative potential

Product/ingredient name	LogPow	BCF	Potential
heptan-2-one	2.26	-	low
n-butyl acetate	2.3	-	low
Isopropyl alcohol	0.05	-	low
butan-1-ol	1	-	low
3-butoxypropan-2-ol	1.2	-	low
ethylbenzene	3.6	79.43	low

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Section 12. Ecological information

Mobility in soil

Soil/water partition coefficient (Koc)

: Not available.

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 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.

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

14. Transport ir	ofrmation		
	DOT	IMDG	ΙΑΤΑ
UN number	UN1263	UN1263	UN1263
UN proper shipping name	PAINT	PAINT	PAINT
Transport hazard class (es)	3	3	3
Packing group	111	III	III
Environmental hazards	No.	Yes.	Yes. The environmentally hazardous substance mark is not required.
Marine pollutant substances	Not applicable.	(bis-[4-(2,3-epoxipropoxi) phenyl]propane)	Not applicable.
Product RQ (lbs)	32819.4	Not applicable.	Not applicable.
RQ substances	(xylene)	Not applicable.	Not applicable.

Additional information

DOT

: Package sizes shipped in quantities less than the product reportable quantity are not subject to the RQ (reportable quantity) transportation requirements.

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 AMERCOAT 385LH SOLAR RED RESIN
 Image: Comparison of the product name pollutant mark is not required when transported in sizes of ≤5 L or ≤5 kg.
 Image: Comparison of the pollutant mark is not required when transported in sizes of ≤5 L or ≤5 kg.

 IMDG
 :
 The marine pollutant mark is not required when transported in sizes of ≤5 L or ≤5 kg.

 IATA
 :
 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

Section 15. Regulatory information

United States

United States inventory (TSCA 8b) : All components are active or exempted.

SARA 302/304

SARA 304 RQ : Not applicable.

Composition/information on ingredients

No products were found.

SARA 311/312

Classification	: FLAMMABLE LIQUIDS - Category 3 SKIN IRRITATION - Category 2 EYE IRRITATION - Category 2A SKIN SENSITIZATION - Category 1 CARCINOGENICITY - Category 2
	HNOC - Defatting irritant

Composition/information on ingredients

Name	%	Classification
bis-[4-(2,3-epoxipropoxi)phenyl]	≥20 - ≤50	SKIN IRRITATION - Category 2
propane		EYE IRRITATION - Category 2A
		SKIN SENSITIZATION - Category 1B
heptan-2-one	≥5.0 - ≤7.2	FLAMMABLE LIQUIDS - Category 3
•		ACUTE TOXICITY (oral) - Category 4
		ACUTE TOXICITY (inhalation) - Category 4
		SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE)
		(Narcotic effects) - Category 3
		HNOC - Defatting irritant
n-butyl acetate	≥1.0 - ≤5.0	FLAMMABLE LIQUIDS - Category 2
-		SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE)
		(Narcotic effects) - Category 3
		HNOC - Defatting irritant
Isopropyl alcohol	≥1.0 - ≤3.8	FLAMMABLE LIQUIDS - Category 2
		EYE IRRITATION - Category 2A
		SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE)
		(Narcotic effects) - Category 3
butan-1-ol	≥0.10 - ≤2.5	FLAMMABLE LIQUIDS - Category 3
		ACUTE TOXICITY (oral) - Category 4
	1	United States Page: 15/17

roduct code AT385LH7 roduct name AMERCOA		Date of issue 7 June 2021 Version 16 RED RESIN		
Section 15. Regulatory information				
3-butoxypropan-2-ol titanium dioxide ethylbenzene	≥0.10 - ≤2.7 ≤1.0 <1.0	SKIN IRRITATION - Category 2 SERIOUS EYE DAMAGE - Category 1 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Respiratory tract irritation) - Category 3 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Narcotic effects) - Category 3 HNOC - Defatting irritant FLAMMABLE LIQUIDS - Category 4 SKIN IRRITATION - Category 2 EYE IRRITATION - Category 2 ACUTE TOXICITY - Category 2 FLAMMABLE LIQUIDS - Category 2 ACUTE TOXICITY (inhalation) - Category 4 CARCINOGENICITY - Category 2 SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) - Category 2 ASPIRATION HAZARD - Category 1 HNOC - Defatting irritant		

	<u>Concentration</u>
71-36-3 100-41-4	1 - 5 0.1 - 1

SARA 313 notifications must not be detached from the SDS and any copying and redistribution of the SDS shall include copying and redistribution of the notice attached to copies of the SDS subsequently redistributed.

Additional environmental information is contained on the Environmental Data Sheet for this product, which can be obtained from your PPG representative.

California Prop. 65

WARNING: Cancer - www.P65Warnings.ca.gov.

Section 16. Other information

Hazardous Material Information System (U.S.A.)Health:3*Flammability:3Physical 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. Although HMIS® ratings and the associated label are not required on MSDSs or products leaving a facility under 29 CFR 1910.1200, the preparer may choose to provide them. 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.

National Fire Protection Association (U.S.A.)Health : 3Flammability : 3Instability : 0Date of previous issue: 6/14/2020Organization that prepared: EHSthe SDS

Date of issue 7 June 2021

Product name AMERCOAT 385LH SOLAR RED RESIN

Section 16. Other information

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 = Intermediate Bulk Container
	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)
	N/A = Not available
	SGG = Segregation Group
	UN = United Nations

Indicates information that has changed from previously issued version.

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.